



The Intelligent Surveillance Solution

NVR/DVR/Hybrid NDVR User Manual

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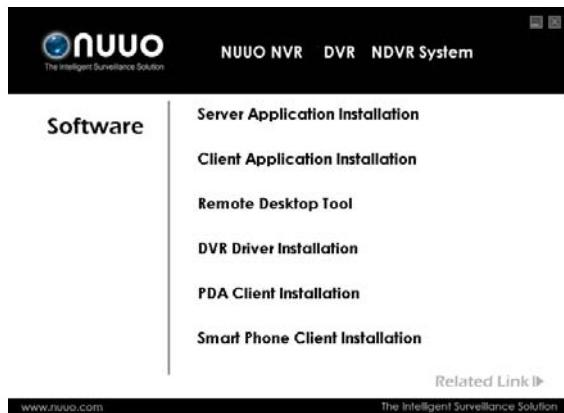
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INSTALLATION

The Installation CD contains the software you need to run the complete system. If you are installing the system on multiple PCs, install the appropriate software for each PC:



- **Server Application:** All functions of NVR/DVR/Hybrid NDVR systems including MainConsole, Playback, Remote Live Viewer, Backup, and Verification Tool.
- **Client Application:** Remote functions of NVR/DVR/Hybrid NDVR systems including Playback, Remote Live Viewer, Backup, and Verification Tool.
- **Remote Desktop Tool:** The tool to access main console and setup configuration remotely.
- **DVR Driver:** The tool to detect the type of capture cards and install the proper driver automatically.
- **PDA Client:** Client application in PDA device.
- **Smart Phone Client:** Client application in smart phone device.
- **Related Link:** To gather more information, such as User Manual, Installation guide and Hardware Requirement.

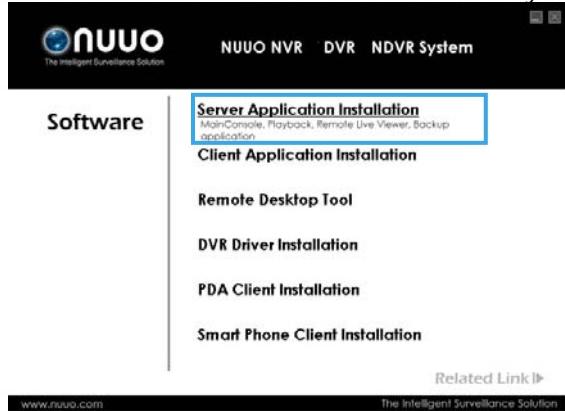
The following section describes the installation of each element of the Intelligent Surveillance System.

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NUUO NVR/DVR/Hybrid NDVR System

Server Application Installation

Step 1: Insert the Installation CD. Run **autorun.exe** from the CD-ROM directly to start the installation.



Step 2: Select **Server Application Installation**.

Step 3: There are 4 system types listed in the **System Setup Tool** window. Choose one and select **Next**.

- NUUO IP Surveillance System/Trial System
- NUUO MPEG-4 Hybrid System
- NUUO H.264 Hybrid System
- NUUO Full D1H.264 Hybrid System

Note: The Setup Tool will detect the type of capture cards installed on PC and enable the system options automatically.

Step 4: Select Next to continue.



Step 5: Check the option **I accept the terms of the license agreement**, select **Next** to continue.



Step 6: Enter the appropriate information, select **Next** to continue.

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Step 7: Choose **Complete** or **Custom** setup type.



COMPLETE SETUP TYPE

Installs all program features into the default directory.

Check **Complete**, and then select **Next**. All program features will be installed. [COMPLETE SETUP requires the most disk space.]

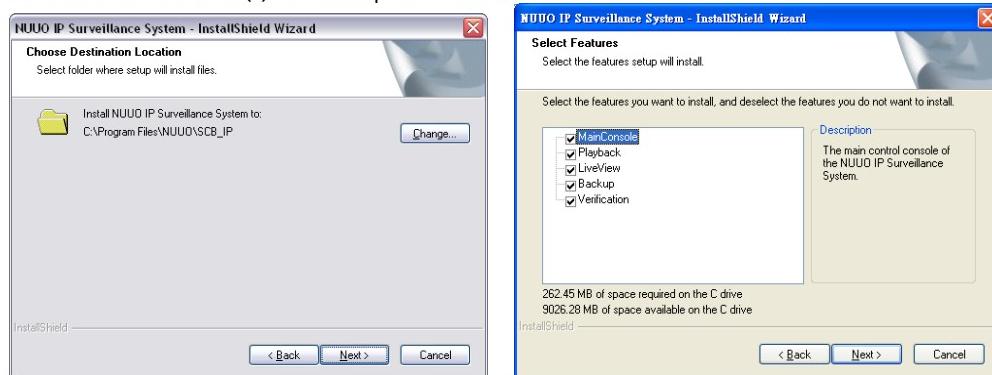
CUSTOM SETUP TYPE

Allows you to install the system to a preferred directory and select whichever program feature(s) to install. [Recommended for advanced users]

Check **Custom**, and then select **Next**.

Select **Change** if you wish to modify the installation directory.

Select the feature(s) for setup to install, select **Next**.



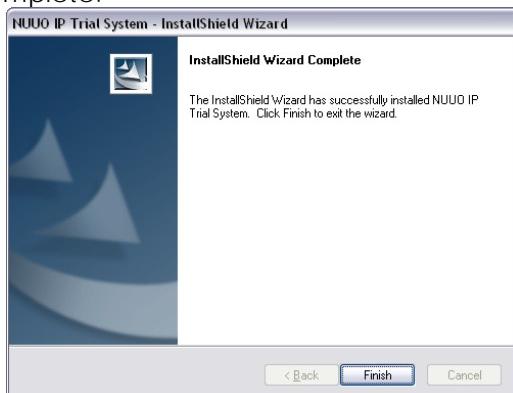
The Intelligent Surveillance Solution

NUUO NVR/DVR/Hybrid NDVR System

Step 8: Select **Install** to start the installation.



Step 9: Select **Finish**, installation complete.

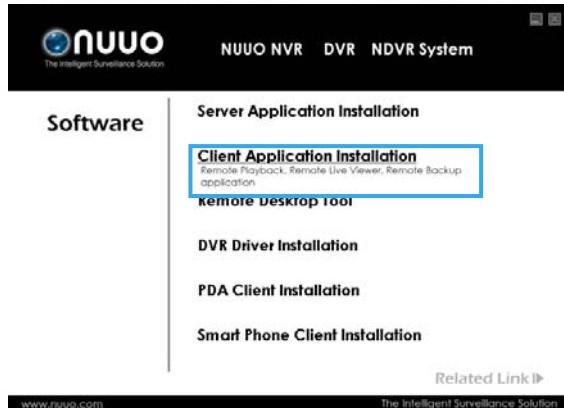


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NUUO NVR/DVR/Hybrid NDVR System

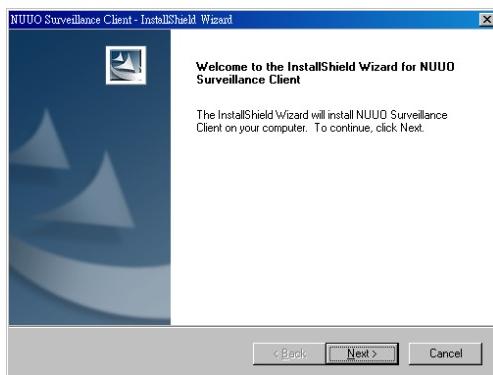
Client Application Installation

Step 1: Insert the Installation CD, run **autorun.exe** from the CD-ROM to start the installation.

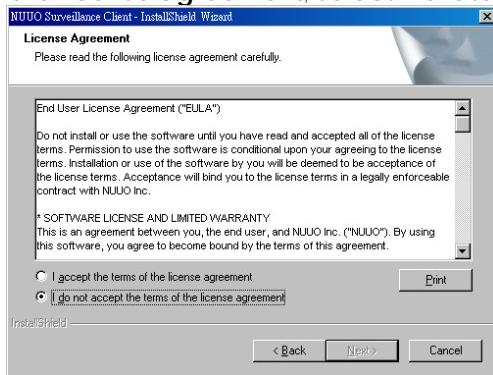


Step 2: Select **Client Application Installation**.

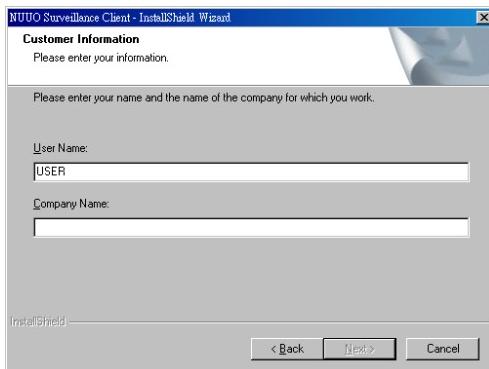
Step 3: Select **Next** to continue.



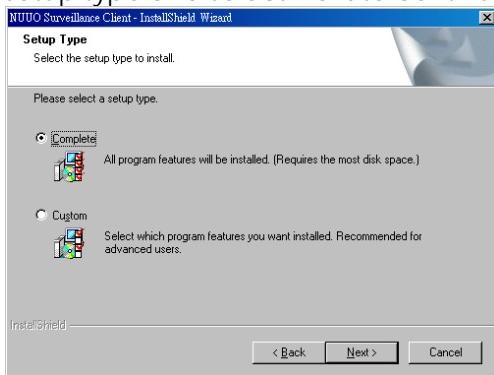
Step 4: Check **I accept the terms of the license agreement**; select **Next** to continue.



Step 5: Enter your information and select **Next** to continue.



Step 6: Select **Complete** or **Custom** setup type and select **Next** to continue.



COMPLETE SETUP TYPE

Installs all program features into the default directory.

Check **Complete**, and then select **Next**. All program features will be installed. [COMPLETE SETUP requires the most disk space.]

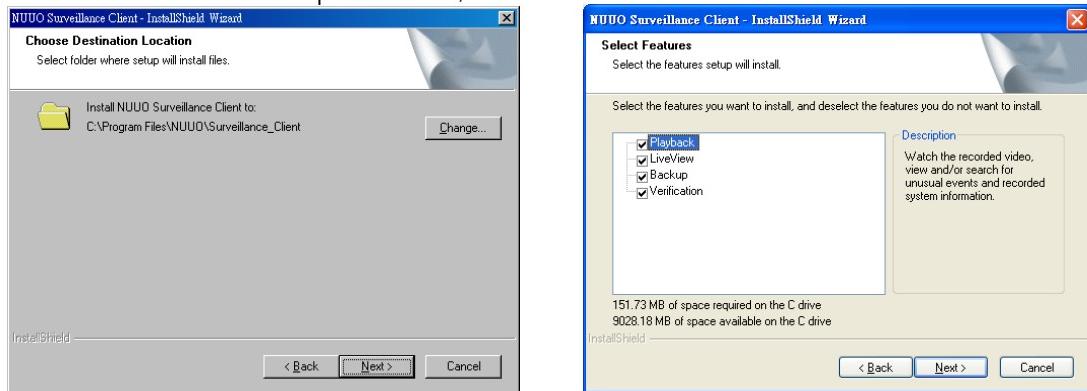
CUSTOM SETUP TYPE

Installs the system to a preferred directory and allows you to select whichever program feature(s) to install. [Recommended for advanced users]

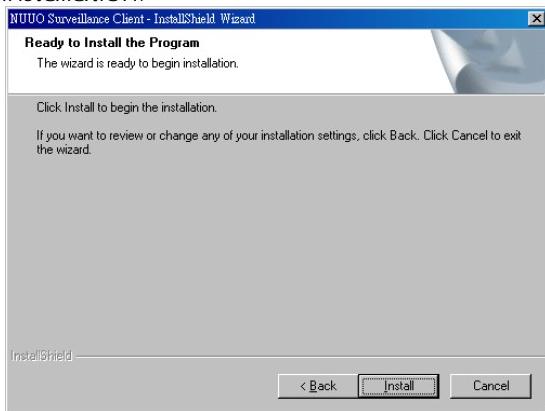
Check **Custom** option and then click **Next**.

Select **Change** to modify the installation directory where setup will install, select **Next**.

Select the features setup will install, select **Next** after confirmation.



Step 7: Select **Install** to begin the installation.



Step 8: Select **Finish** when install is complete.

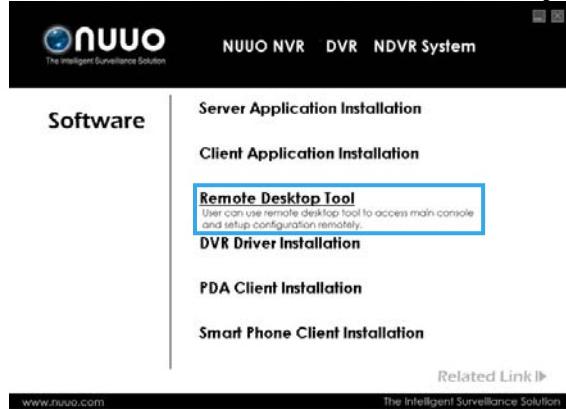
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Remote Desktop Tool

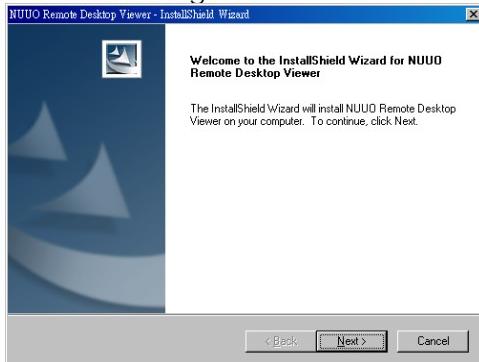
Remote Desktop Tool allow user remote to access Main Console System and setup configuration.

Step 1: Insert the Installation CD. Run **autorun.exe** from the CD-ROM directly to start the installation.

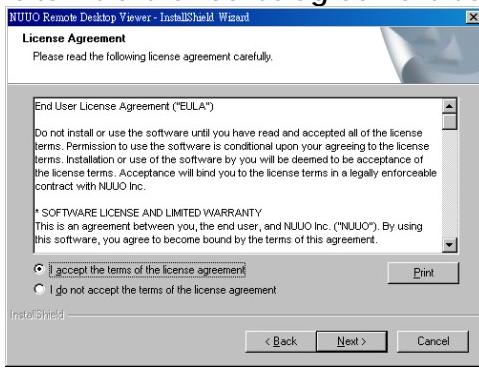


Step 2: Select **Remote Desktop Tool**.

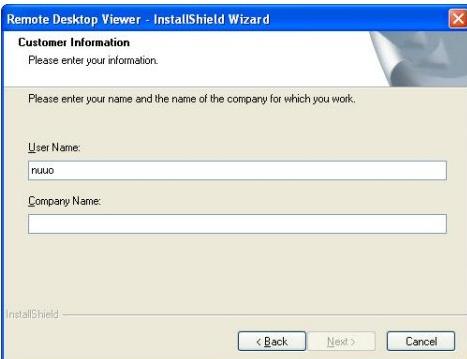
Step 3: Select **Next** in the Install Shield Wizard dialog box.



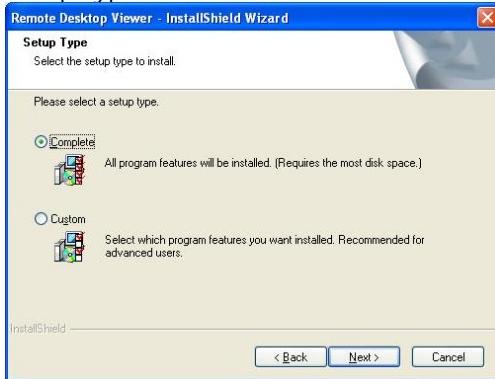
Step 4: Check the option **I accept the terms of the license agreement**. Select **Next**.



Step 5: Enter your information, select **Next**.



Step 6: Select **Complete** or **Custom** setup type.



COMPLETE SETUP TYPE

Install all program features into the default directory.

Check **Complete**, and then select **Next**. All program features will be installed. [Requires the most disk space.]

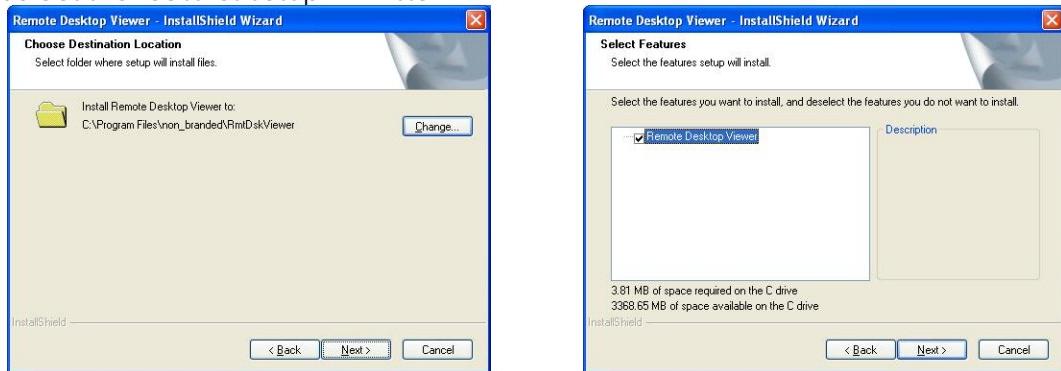
CUSTOM SETUP TYPE

Install the system to a preferred directory. Select program feature(s) to install. [Recommended for advanced users]

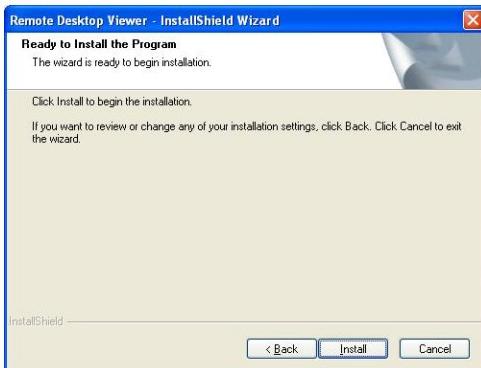
Check the option **Custom**, select **Next**.

Select **Change** to select folder setup will install files.

Select the features setup will install.



Step 7: Select **Install** to start the installation.

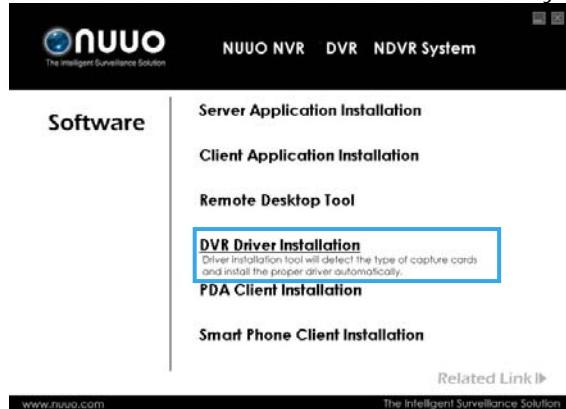


Step 8: Select **Finish** after installing the system completely.

DVR Driver Installation

Driver Install Tool help user to auto detect type of capture card and install corresponding drivers.

Step 1: Insert the Installation CD. Run **autorun.exe** from the CD-ROM directly to start the installation.

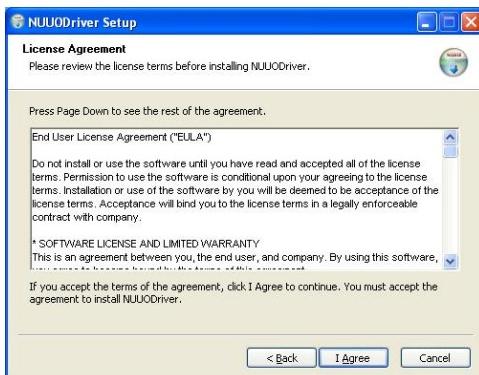


Step 2: Select **DVR Driver Installation**.

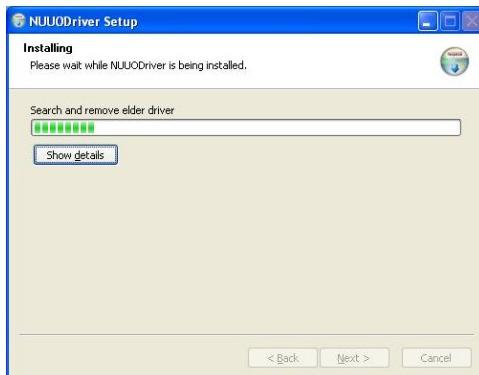
Step 3: In the NUUO Driver Setup dialog box, select **Next**.



Step 4: Check **I Agree** to continue.



Step 5: Installing NUUO driver.



Step 6: Click **Finish** after installing the system completely, and then choose to reboot now or later.

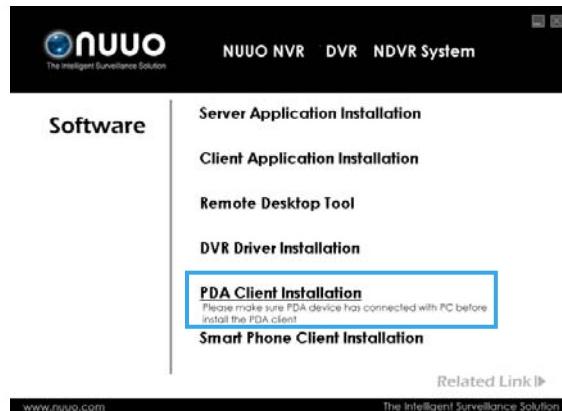


PDA Client Installation

Step 1: Connect PDA device to the PC.

Step 2: Insert the installation CD, click **PDA Client Installation** to automatically install the client application in device.

Note: If you do not have Microsoft® ActiveSync installed, a message will appear "Cannot find ActiveSync, install ActiveSync and run installation again".



Step 3: Check that the client application is installed completely in PDA device.

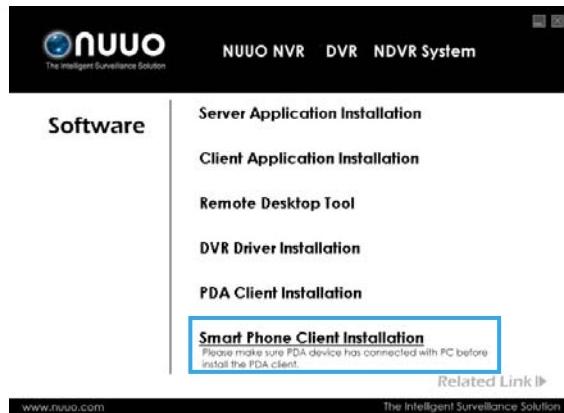


Smart Phone Client Installation

Step 1: Connect Smart Phone device to the PC.

Step 2: Insert the installation CD, click **Smart Phone Client Installation** to automatically install the client application in device.

Note: If you do not have Microsoft® ActiveSync installed, a message will appear "Cannot find ActiveSync. Please reinstall ActiveSync and then run this installation again."



Step 3: Check the client application is installed completely in smart phone device.

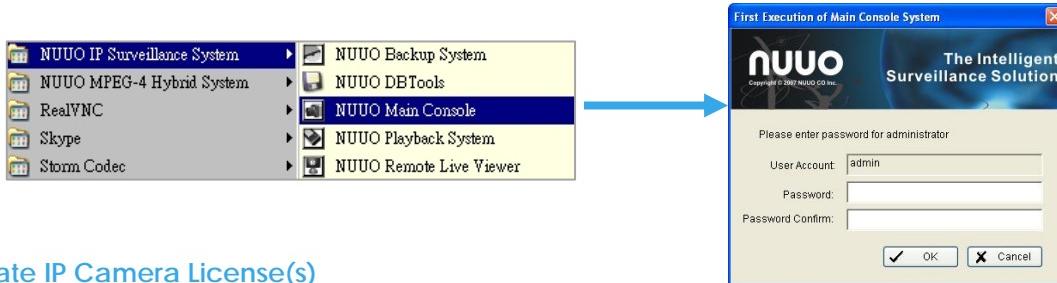


Quick Start

Execute Main Console

Step 1: Go to **Start > All Programs > NUUO Surveillance System > NUUO Main Console** to execute Main Console.

Step 2: Enter your own password into the edit box, enter it again for double confirm and then click on **OK**.



Activate IP Camera License(s)

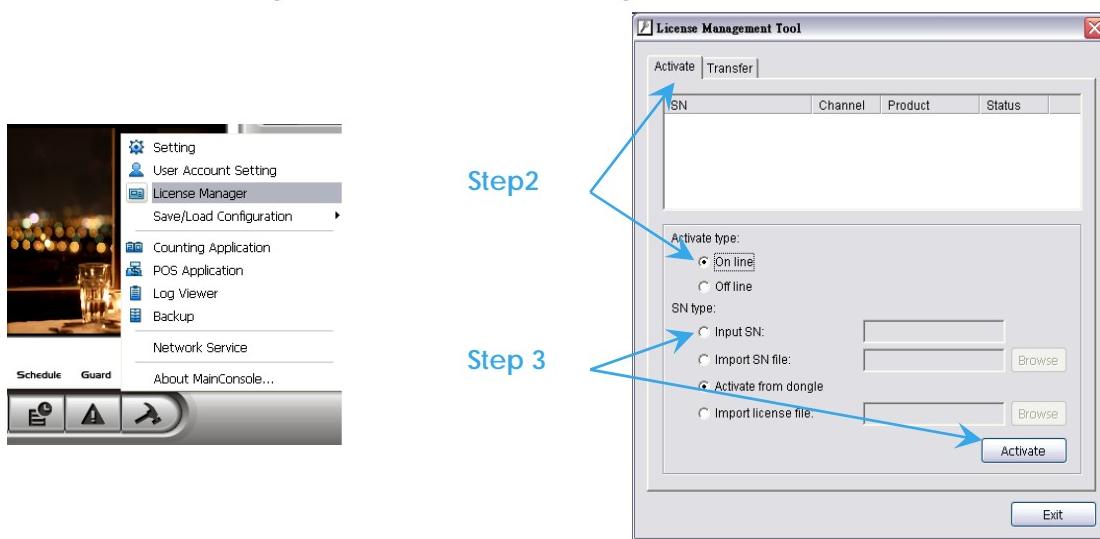
Step 1: Open License Manager Tool in **Config** menu.

Step 2: Select **Activate** tab, check the PC in **On line** network environment.

Step 3: Insert the SN, SN file or dongle to activate license.

Step 4: After software license is activated successfully, please restart Main Console.

Note: Please refer page 110 for advanced settings.



Install IP camera(s)

Step 1: Setup the IP camera(s) by referring to the user manual provided by the IP camera manufacturer.

Step 2: Make sure you can access this camera through IE browser.

Step 3: Add the IP camera(s) to the system by following the steps below.



Add IP camera(s)

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Step 1: Execute MainConsole.

Step 2: Type in user name and password and log in to the system.

Step 3: In Main Console, go to **Config** and select **Setting** to obtain the Setting panel.

Step 4: Go to **Camera** tab.

Note: If the IP camera supports UPnP, follow step 5. Otherwise, follow step 8.

Step 5: Click on **Search** to find out the IP cameras at this local area network (LAN).

Note: Search function only available when the IP cameras support **UPnP**.

Step 6: Select one of the IP cameras that are available and enter the username and password.

Step 7: Click **OK** to add the camera.

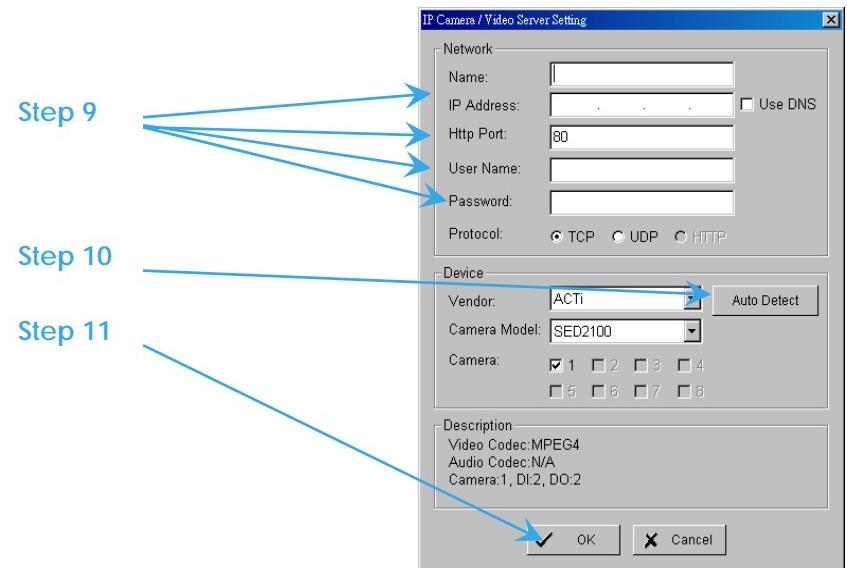
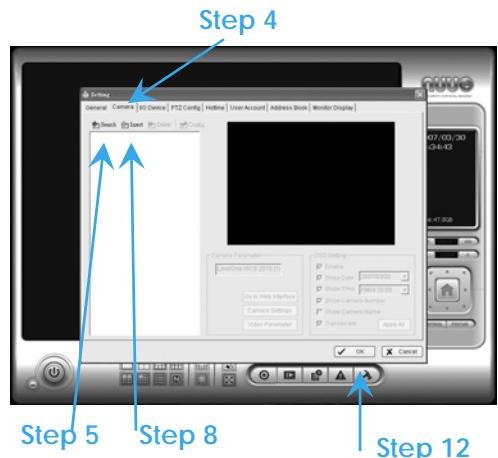
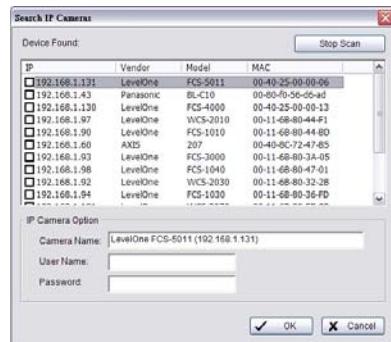
Step 8: Click **Insert** to insert the IP cameras.

Step 9: Enter the IP address or domain name (check the **Use DNS** option), Http Port, Username, and Password.

Step 10: Select **Auto Detect**.

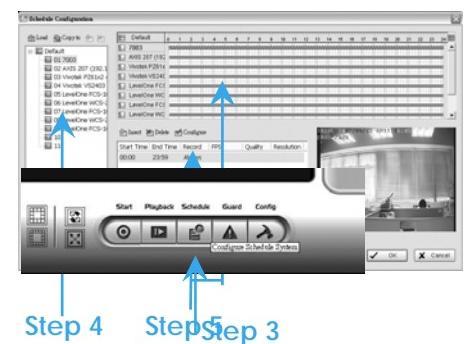
Step 11: Select **OK** to add the camera.

Step 12: Select **OK** to exit.



Set Schedule

Step 1: Execute Main Console.



Step 2: Type in user name and password.

Step 3: Select **Schedule**.

Step 4: The default schedule is "always record" when a camera is newly inserted.

Step 5: Choose a camera and then select **Configure** or just double click on the schedule bar to modify the recording mode.

Step 6: Select **OK** to update the recording schedule.

Step 7: Select **OK** to go back to Main Console.

Set Smart Guard

Step 1: Execute Main Console.

Step 2: Type in user name and password and log in the system.

Step 3: Click on **Guard**.

Step 4: Select a camera and then click on **Insert Event**.

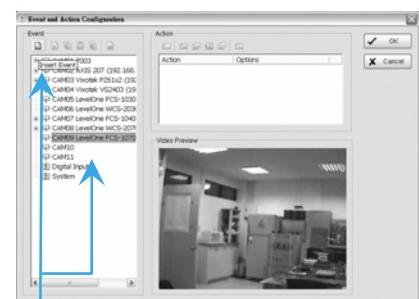
Step 5: Take "General Motion" for example, select **General Motion** as the event type and then click on **OK**.

Step 6: In **Alarm Event Configuration** panel, define your own detection zone, sensitivity and interval. After that, click on **OK** to save the configuration.

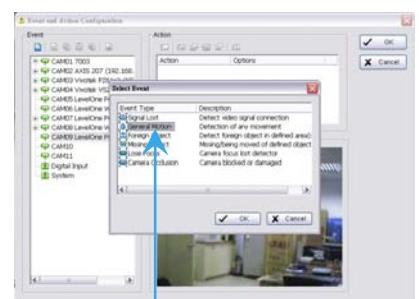
Step 7: Click **OK** to go back to Main Console.



Step 3



Step 4



Step 5



Step 6

Start Recording & Smart Guard

Step 1: Execute Main Console.

Step 2: Type in user name and password and log in the system.

Step 3: Click on **Start**.

Step 4: Click on **Start Recording Schedule** and **Start Smart Guard System** to enable the two functions.



Playback

Step 1: Execute Main Console.

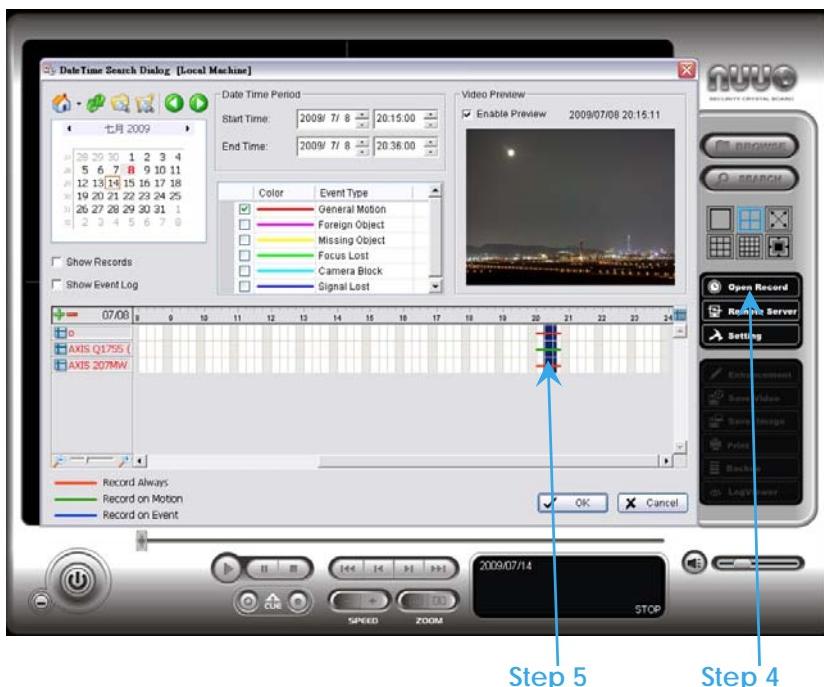
Step 2: Type in user name and password and log in the system.

Step 3: Click on **Playback**.

Step 4: In Playback, click on **Open Record**.

Step 5: Select a specific day from the calendar and click on **Show Records** to make sure the video is available, left click on mouse and drag to select a video clip to replay; user can also select multiple channels to replay at the same time.

Step 6: The recorded files are now ready to view.

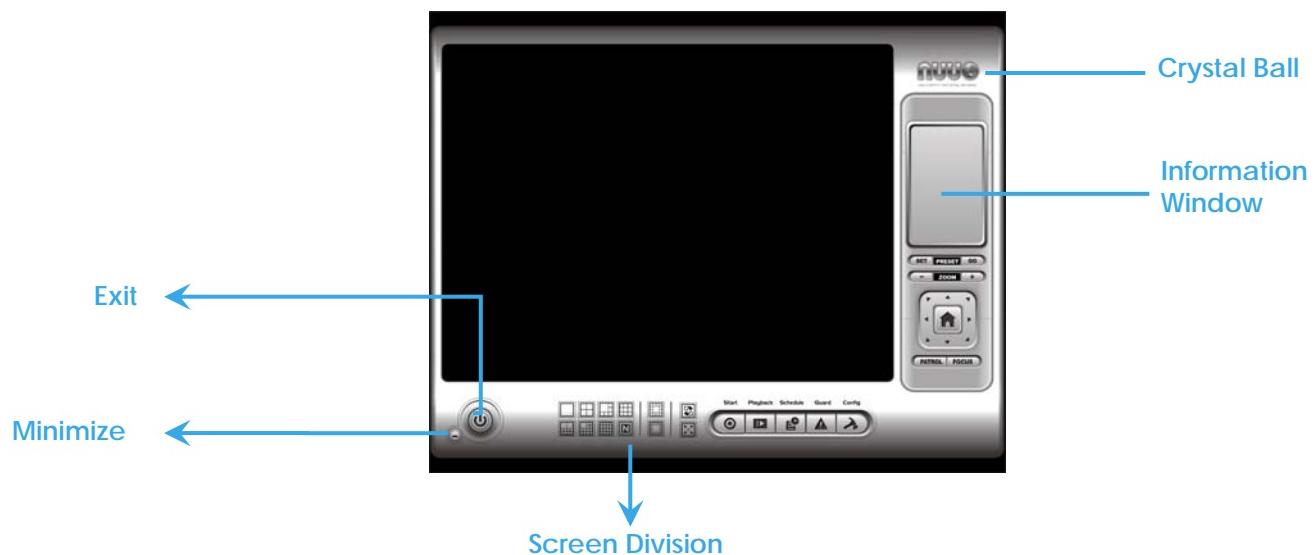


1. Main Console



This is the main operating system - to activate schedule recording, setup smart guard and configure system setting.

1.1 User Interface Overview



Exit:

Shut down the Surveillance System or log out current user.

Minimize:

Minimize the Main Console window.

Screen Division:

Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to regain previous screen division layout.

	Divide into 1 screen(s)		Divide into 4 screen(s)		Divide into 6 screen(s)		Divide into 9 screen(s)
	Divide into 10 screen(s)		DScSpCue oom		Divide into 16 screen(s)		Divide into N screen(s)
	Divide into 13 screen(s)		Divide into 17 screen(s)		Switch to Full screen		Rotate all screens

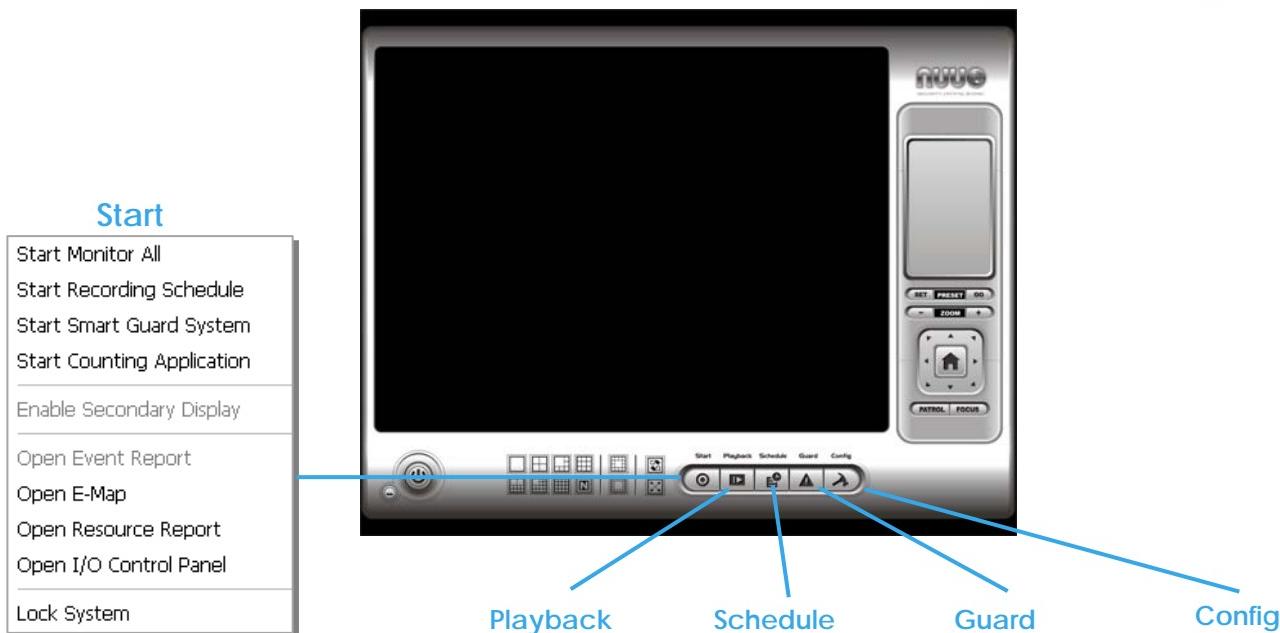
Crystal Ball

Indicate the working status of the system. Gray – at rest, Blue - recording, and Red – events detected. When the crystal ball is red, click it to open the event report then cancel the event(s).

Information Window

Display date, time, free Disk space, IP Camera Bit rate customized text and Further information like Temperature, Fan speed, System Resource and Network Utilization.

Note: To customize Information about window's setting, go to Config - Setting - General - Status Display. Select Advanced Setting for further information like Temperature, Fan speed, System Resource and Network Utilization.



Start:

Click on the **Start** icon and select from the drop down menu to activate/ deactivate: (a) Recording Schedule System, (b) Smart Guard System, or (c) Counting Application. Or select Start/Stop Monitor All to activate/ deactivate all the functions at once.

The Start menu also include the option to Enable Secondary Display, and open monitor tools, such as open event report to monitor smart guard event; open E-map window to monitor all devices with map indicator; open Resource Report to check system status; open IO Control panel to monitor the DI/DO status and manual triggering the DO devices; or lock the system here. See page 74 for more details about secondary display.

Note:

1. When activating any of the monitor functions of Smart Guard, system would consider the current screen status as normal. Therefore, if you want to, for example, detect Missing Object, be sure the object needed to be protected is in its position at the moment you click Start button.
2. To automatically activate the Recording Schedule System, Smart Guard System and Counting Application, at the Main Console go to Config; Setting; General; Startup to setup the auto-startup functions.
3. As for Secondary Display, open event report, open E-map window, open Resource Report and open IO controls panel, Main Console will keep the behaviors as the latest status when exiting the system.

Playback:

Click on the icon to get Playback Console. You can watch recorded video, search recorded video, adjust image of the stored data, save video/ pictures, print images, check log information and event records, and set up recording function configuration. See Playback on page 30 for detail.

Schedule:

Organize recording time schedule and setup recorder configuration. See **Schedule** on page 45 for detail.

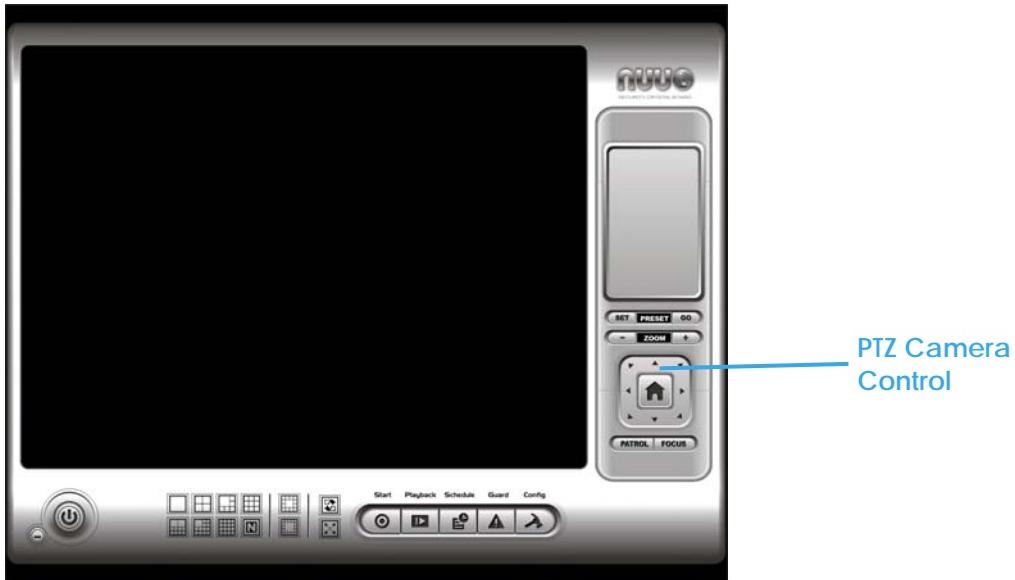
Guard:

Add/edit type(s) of events that you want to detect; setup action(s) responding to events. See **Guard** on page 52 for detail.

Config:

Select from the drop down menu to modify the general settings, user account settings, save/ load configuration settings, open License Manager, edit counting application and POS application, access log viewer and backup files, or setup network services. See **Config** on page 64 for detail.

Note: User account and License manager could only be enabled for users with administrator privilege.



1.2 PTZ Camera Control

Control the movement of PTZ cameras. With cameras that support PTZ control, you can move, zoom, patrol, adjust the focus, and set preset points of the cameras.

1.2.1 Preset/ Go

Adjust the camera view until you are satisfied. Click on the Set icon and set up the view as the preset point 01. Adjust the camera view again and set up the preset point 02. Repeat the process until finish setting up all preset points. You can enter any names you want instead of the preset point 01, preset point 02, preset point 03..., click on the Go icon and view the result of your setting.

Note: For the speed settings of PTZ camera, go to Config - Setting - PTZ Config to setup the advanced settings.

1.2.2 Zoom

Click on the + and - signs to zoom in and zoom out the view.

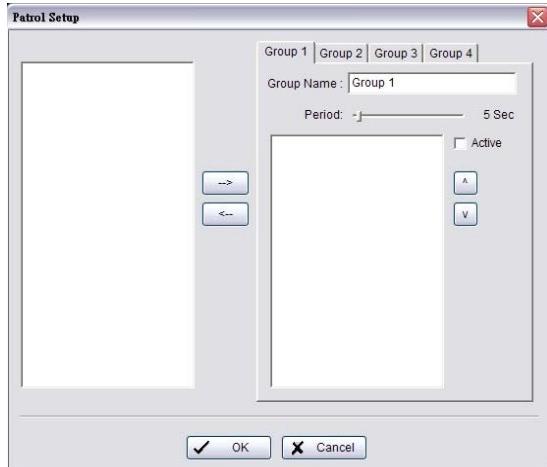
1.2.3 Focus

You can select to have the camera focused near or far. To focus near means objects that are closer will be clearer than the objects that are further away. On contrast, to focus far means objects that are further will be clearer than the objects that are closer. Click on the Focus icon and select auto focus if you want the system to decide the focus point for you.

1.2.4 Patrol

Go to Patrol - Set Patrol to obtain the Patrol Setup dialog. From the left window, select the cameras that you would like to have in the patrol group. Align the cameras in order in the right window and adjust the time. Rename the group name if you want. After completing the setup, check the Active option, and then click OK.

Note: You can setup up to four groups of auto patrol. To start or stop, click on the Patrol icon in the Main Console, and select Start Patrol or Stop Patrol.



1.3 On Screen Menu

Right click on the camera screen and get the On Screen Menu, from which you can quickly adjust the setting of camera.

1.3.1 Enable Move/Area Zoom

With cameras that support PT function, click the Enable Move function to adjust the current camera's view by clicking on the display screen. To cancel this function, right click on the screen and select Disable Move.

With cameras that support Area Zoom function, click the Enable Move/Area Zoom function to adjust the current camera's view by dragging a rectangle on the display screen. To cancel this function, right click on the screen and select Disable Move/Area Zoom.

1.3.2 Enable Talk

With cameras that support two-way audio, select enable talk to utilize the function.

1.3.3 Enable Digital PTZ

To enable the PTZ functions of the camera, select the Enable digital PTZ option. Use mouse wheel or click on the + and – signs to zoom in and zoom out on the camera, or drag a rectangle to enlarge the area.

The square flashing on the video grid indicate the correspondent view ratio of the camera.

1.3.4 ImmerVision Lens Setting

With cameras that support ImmerVision Lens. Right click on the display screen and select the mode of lens, original, PTZ mode, Quad mode and Perimeter mode. If the lens setting set as Quad, PTZ, or Perimeter mode, the Enable Digital PTZ option would become Enable ImmerVision digital PTZ.

1.3.5 Connect/ Disconnect

Right click on the display screen and select Connect/ Disconnect to modify the connecting status of the camera.

1.3.6 Show Camera

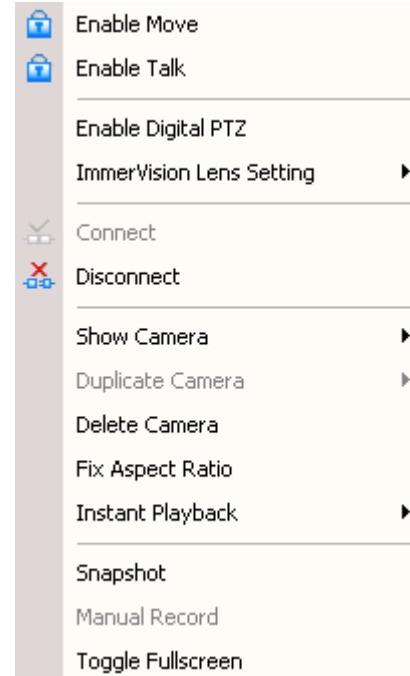
Select the camera from the Show Camera Menu to display video on selected screen.

Note:

1. The camera list of show camera menu shows as the one in the right column of monitor display panel.
2. The change of displayed screen is only applied to the current display divisions.

1.3.7 Duplicate Camera

Select the camera from the Duplicate Camera Menu to duplicate camera video to selected screen.



Note:

1. The duplicated camera would add to the camera list of duplicate camera menu shows as the one in the right column of monitor display panel.
2. The change of display list will apply to all divisions and also the right column of monitor display.

1.3.8 Delete Camera

Click on Delete Camera to remove a camera from the display screen of the display screen.

Note:

1. The camera list of delete camera menu shows as the one in the right column of monitor display panel.
2. The settings will apply to all divisions and also the right column of monitor display.

1.3.9 Fix Aspect Ratio

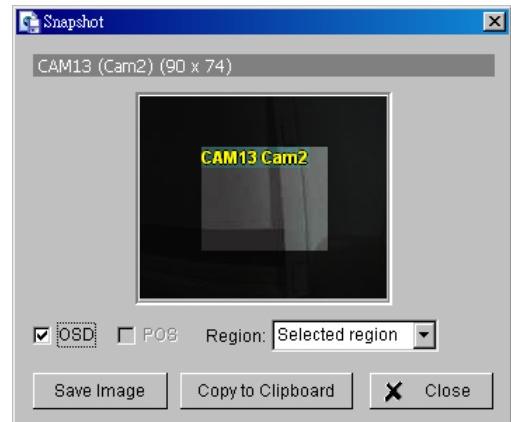
For some special camera resolution, user can enable Fix Aspect Ratio to view original ratio video, or disable this option to stretch 3:4 to fit window.

1.3.10 Instant Playback

To open the Instant Playback window of the camera, select the Instant Playback option and choose the period. Refer to 1.5 Instant Playback section for detail.

1.3.11 Snapshot

Select the snapshot function to capture a specific video image frame immediately. You have the options to copy the image to clipboard or to save it. For further settings, select OSD option and POS option to export the image with date/time, camera number/name and POS text. If the digital PTZ function is enabled in display view, you can also decide Full Size or Selected Region as your snapshot region.



1.3.12 Manual Record

Start recording video by selecting manual record.

1.3.13 Toggle Full screen

Select to view a specific channel with full screen. Press "ESC" to go back to original window.

1.4 Live Display

NUUO Live display is flexible; you may change channels and screen divisions. Each screen division has the same display list, but has a different sequence.

Such like, when using Show/Duplicate/Delete Camera function to edit camera list, the operator will apply to all of the different screen divisions.

Note: The camera list of all divisions is the same as the right column of monitor display tab on Config/Setting window; it means two monitors could have two different lists.

Action	Current division	Other division
Show camera (add cam 1)		
Duplicate camera (duplicate cam 2)		
Delete camera (delete cam 2")		

When using mouse to drag camera channel, the sequence change would only apply to original division.

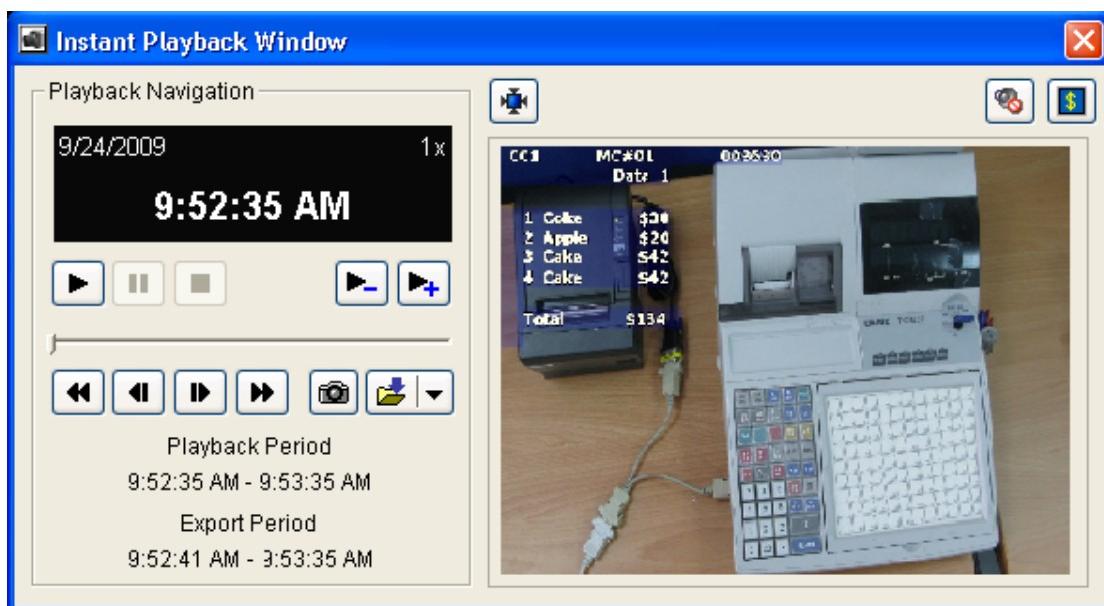
Original	Action	Current division	Other division
	Drag cam 1 to cam 4		

Right click on the camera screen and get the On Screen Menu, from which you can quickly adjust the setting of camera.

1.5 Instant Playback

NUUO Instant Playback function allows you to play the last few minutes of any live video channel. Simply right click on Live Channel and select Instant Playback to open the recorded video.

1.5.1 Instant Playback window overview



Information Window: will show correct date time of video.

Playback Period: indicates the available play period; the system will open 1min, 3 min, or 5 min of video.

Export Period: indicates the period of export video function; default is set as available play period.

Tool: Adjust to original video resolution button: to adjust the video to original video resolution.

Audio button: to turn on / turn off the audio.

POS button: to enable / disable POS transaction data overlay.

1.5.2 The navigation of Instant Playback

The Instant Playback window allows you to browse recorded video, snapshot image and export video with audio and POS transaction data.

To browse recorded video:

Simply click timeline to view the video, or use below navigation tools to control the player.

- Play / Pause / Stop



- Speed up/down control



- play Forward/Reverse [frame by frame]



- play Previous / Next minute video

To take snapshot of video clip:

Pause the video in image which you want to export and click snapshot button . The snapshot is displayed and can be saved or copied to clipboard.

To export recorded video:

Select export period and click export button , and setup the options of export video.

The default export video period is as playback period. To customize period, select start/end time and click on Cue In/Out from drop-down list of button, the export period will show on the left-down corner of window.

Export Formats includes:

- ASF – More efficient than AVI format. [Recommended format]
- AVI (Microsoft Video1) – Supports Windows Media Player with Vista & XP, the quality may be poorer than recorded video by transcode.
- AVI (Original Format) – faster export process, better quality on the recorded video but the export file uses VLC Player to play. (For Windows Media Player, please install additional FFDShow codec).

Note:

- The restrictions of AVI format.
 - a. The maximum size of an AVI file is limited to 1.8 GB.
 - b. Variation of frame rate will cause the resulting video to play slower or faster.
- If the selected video sequence uses multiple image resolutions (CIF, 2CIF, 4CIF, etc.) or multiple video format(MPEG-4, M-JPEG, H.264), the exported video sequence will create separate export files every time the resolution changes.

2. Playback



Watch the recorded video, view and/or search for unusual events and recorded system information.

2.1 User Interface overview:



Minimize: Minimize the Playback console.

Exit: Shut down the Playback console.

Scroll bar: Indicates the status of the playing video; drag it to where you want to review.

Information Window: Display date and time, video status, cue in/ out points' time, and speed.

Audio Volume Control: Adjust the sound level.

Screen Division: Allocate the sub-screen display by clicking on the desired layout icon. To switch to single camera display, double click on a particular sub-screen. Double click on the screen again to go to previous screen division layout. To view in the full screen mode, right click on the screen to trigger Toggle Full screen function.

Control:



Play, Pause and Stop the video.



FWD/REV: Customize the speed on Settings panel.

Step FWD/REV: Forward/reverse frame by frame.



Cue: When playing video, click on the Cue In/ Cue Out icon at where you want to set as the starting/ ending point of a saved video clip. The Cue In and Cue Out time will be displayed on the Playback Information Window once they are set.



Speed: Control the speed of the playing video.



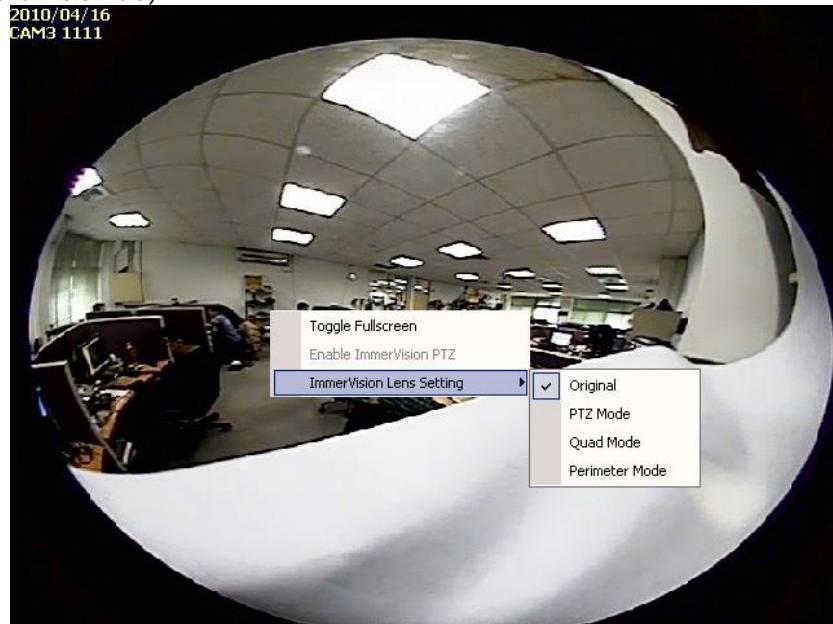
Zoom: Zoom in and zoom out.

On Screen Menu:

Toggle Fullscreen: Select it to view cameras with full screen. Press "Esc" or right click un-select full screen to go back to the original view.

Enable ImmerVision PTZ: Adjust PTZ in PTZ mode. (Depend on device)

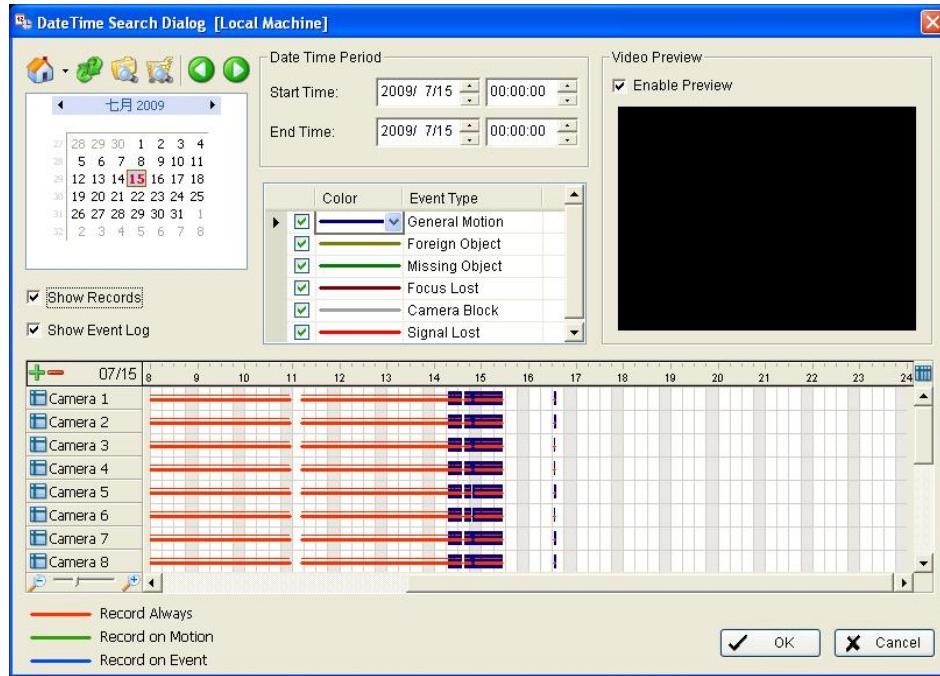
ImmerVision Lens Setting: Select the mode of lens, original, PTZ mode, Quad mode and Perimeter mode. (Depend on device)



2.2 Open Record

Click on **Open Record** button to access the Date-Time Panel and withdraw the video record that you want to review.

2.2.1 Date Time Panel



2.2.2 Record Display Window

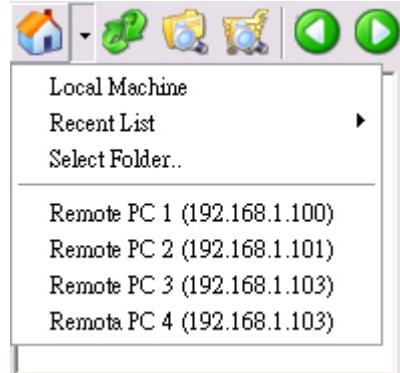
The record display window shows the information of the available video clips. It may show in calendar or list control view. For further details about how to modify the record display window view, see page 43.

- Remote Server Site: Open Remote Playback Site Management to access local machine or set up remote playback server. Select Folder option to directly access recorded data folder or use Recent List to access previously recorded folders.

Note: Select Folder function requires password of MainConsole.

- Refresh: refresh display window Log Viewer: Accesses Log Viewer Tool To access POS Search Tool Previous Days: Show recording of previous date

Next Days: To show recorded of next recording date



2.2.3 Date Time Period

Select the start and end time points that indicate the time period you would like to view.

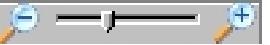
2.2.4 Video Preview

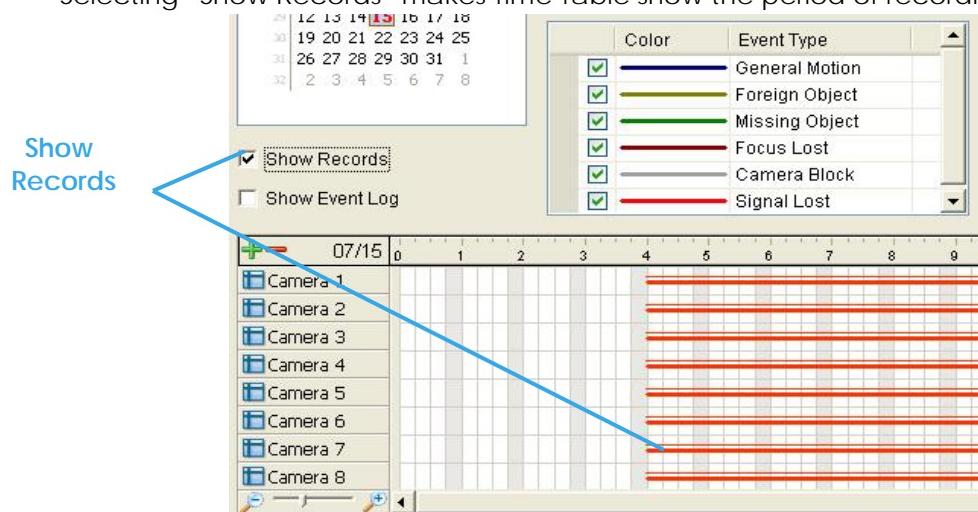
Check the enable preview option to view the selected video.

2.2.5 Event Type

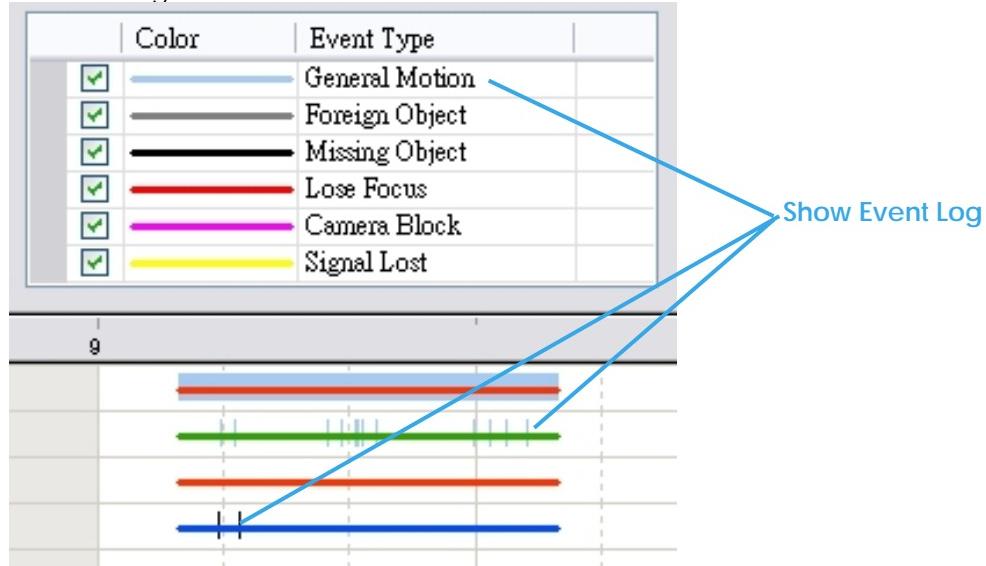
There are 6 event types; see Chapter 4 Guard for details. You may set up different colors for different event types to help you select events.

2.2.6 Time Table

- Utilize the  icon to select all channels; also utilize the  icon to deselect all channels. Finally, utilize the scale bar  to modify the scale of the time table.
- Selecting "Show Records" makes Time Table show the period of recording data like below:



- Selecting Show Event Log makes Time Table show the time of event detection like below:



2.2.7 Withdraw the Record

Step 1: From the record display window, top left of the Date Time Panel, select the date you want to withdraw the record from. The red/green/blue lines shown on the time table indicate available recorded video records.

Note: The record display window can be shown in (a) calendar view or (b) list control view. To modify the setting of the record display window, click on the Setting button at the right of the Playback Console. See page 43 for more details.

Step 2: Use color bars to differentiate event types from each other. This will help you select video clips.

Step 3: Highlight the video clip you want to review by left-clicking and dragging the time period. You may also utilize the Start Time and End Time in Date Time Period Section. In addition, modify the scale of the time table with the + and - signs on the bottom left.

Step 4: Check the **Enable Preview** option to get the preview of the video you select.

Step 5: Click the camera name to increase or decrease cameras you want to playback.

Step 6: Click **OK** when completing the setting.

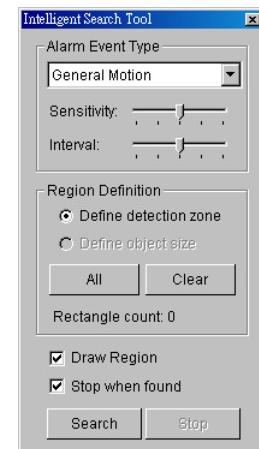
2.3 Search Mode

Click on the **Search Mode** icon to obtain the Intelligent Search Tool panel. You can setup unusual events here to in order to detect abnormality during the recorded period.

- **Intelligent Search Tool Panel:** Click on the **Search Mode** icon to open the Intelligent Search Tool. Set up unusual events here to detect abnormality that occurred during the recorded period.
- **5 events:** General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion.

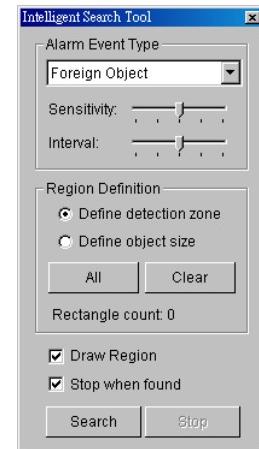
2.3.1 Unusual Event-General Motion

- **General Motion:** Detect all movements in the defined area.
- **Define Detection Zone:** Left click and drag to draw a detection zone. You may define more than one zone on the screen by repeating the process.
- **Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level, meaning the slightest movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.
Note: Set up an appropriate sensitivity level reduces the possibility of a false alarm. For instance, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- **Interval:** Move the slider control to the right to increase time interval so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the time interval.
- **Stop When Found:** Check the option to have the video stop where motion was detected. Uncheck the option to have video kept rolling, and all detected events will show on the list in search result box. Click on the listed event in the box to jump to the point in the video where a motion is detected.



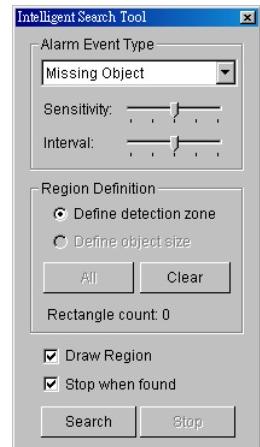
2.3.2 Unusual Event-Foreign Object

- **Foreign Object:** Alarm is set off when any additional object appears in the defined area on the screen.
- **Define detection zone:** Before detecting foreign object, it is required to define a detection area. In order to do so, left click and drag on the screen. Alarm will be triggered when any additional object appears in the detection zone.
- **Define object size:** Drag and draw on the screen to define the size of a foreign object.
- **Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level, which means a slight movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.
Note: Setting up an appropriate Interval value will reduce the chance of false alarms. For example, you can lower the Interval to avoid the alarm being triggered by a pedestrian.
- **Interval:** Click and move the slider control to the right to increase time interval so that the alarm will only be triggered when the object has been removed from the area for longer. Move to the left to reduce the time interval.



2.3.3 Unusual Event-Missing Object

- Missing Object:** Alarm is set off when the selected object is removed from the defined area on the screen.
- Define detection zone:** Before detecting missing object, it is required to define a detection zone. Left click and drag to draw a detection zone. Alarm will be triggered when the defined object is removed from the detection zone.
- Sensitivity:** Modify the sensitivity setting by changing the slider control. Move toward right will increase the sensitivity level and a relatively small movement will trigger the alarm; in contrast, move the slider control toward left will reduce the sensitivity for movement detection.
- Interval:** Click and move the slider control to the right to increase time interval so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the time interval.



2.3.4 Unusual Event- Focus Lost / Camera Occlusion

- Focus Lost:** System will inform you when the camera(s) lose focus.
- Camera Occlusion:** Alarms when any of the camera(s) are blocked.

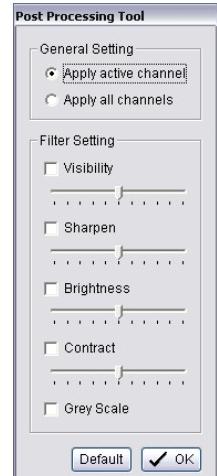
2.4 Enhancement

2.4.1 General Setting

Check the option and chose whether you want to apply the setting to all the channels or only to those currently shown on the screen.

2.4.2 Filter Setting

- Visibility:** adjust the gamma value of the image to enhance the image and make it cleaner.
- Sharpen:** activate the function. Move the slider control to the right to sharpen the image, to the left to soften it.
- Brightness:** activate the function. Move the slider control to the right to make the image brighter.
- Contrast:** activate the function. Move the slider control to the right to increase contrast.
- Grey Scale:** show the record in grey scale mode so the image displays in black and white.



2.5 Save Video

Step 1: Click on the display screen to choose the camera display that you want to save as a video clip.

Step 2: Set up the **cue in** and **cue out** points; the cue in and cue out time will show on the information window.



Step 3: Click **Save Video** icon, choose the folder where you want to save the file at, enter the file name and click **SAVE**.

Step 4: Set the Export Format (ASF recommend) and set the Use Profile.

- ASF – more efficient than AVI format. [Recommended format]
- AVI (Microsoft Video 1) – Supports Windows Media Player with Vista & XP, quality may be poorer than recorded video by transcode process.
- AVI (Original Format) - Faster export process with high quality video, but the export files can only be viewed using VLC Player to play. (For Windows Media Player, please install additional FFDShow codec).

Note:

- The restrictions of AVI format:
 - a. The maximum size of an AVI file is limited to 4 GB.
 - b. Variation of frame rate will cause the resulting video to play slower or faster.
- If the selected video sequence uses multiple image resolutions (CIF, 2CIF, 4CIF, etc.) or multiple video format (MPEG-4, M-JPEG, H.264), the exported video sequence will create separate export files every time the resolution changes.



Step 5: Select to export (i.e. save) the recorded video with Audio, OSD and POS, or export video only.

Step 6: Click **OK** to save the video.

2.6 Save Image

Step 1: Click on the display screen to choose the camera display from which you want to save pictures.

Step 2: Click **Save Image** button when the image you want is shown on the screen. You may click Pause to freeze the video, use Step Forward/ Step Backward function to find the picture(s) that you want to save.

Step 3: Select OSD option and POS option to export the image with date/time, camera number/name and POS text. If the digital PTZ function is enabled in display view, you can also decide either Full size or Selected Region as your image region.

Step 4: You have the options to copy the image to clipboard or to save it. To save image just choose the folder and the format of image (BMP or JPEG) you prefer and then click save.

Note: You may skip step 3 by pre-setting a folder and format that you want to save the images (refer the section automatically save the image file at page 43.)



2.7 Print

Print the current image of the video you choose.

Page Setting:

Set to print the image with original size or fit the page. Set Align image to Top, Center, or Bottom.

Print Content:

Print the image from currently selected channel or all the channels shown on the screen.



2.8 Backup

Different from Save Video, the Backup function saves everything from the Playback panel, including log information.

You can start a full function Playback Console and load the backup files into it on any PC with Windows operating system. This means you may monitor the real time video and work on the backup files on separate computers simultaneously.

Step 1: Press the **Open Record** to select data and press **Backup**.

Step 2: You can adjust the **Start Time** and **End Time** you want to backup.

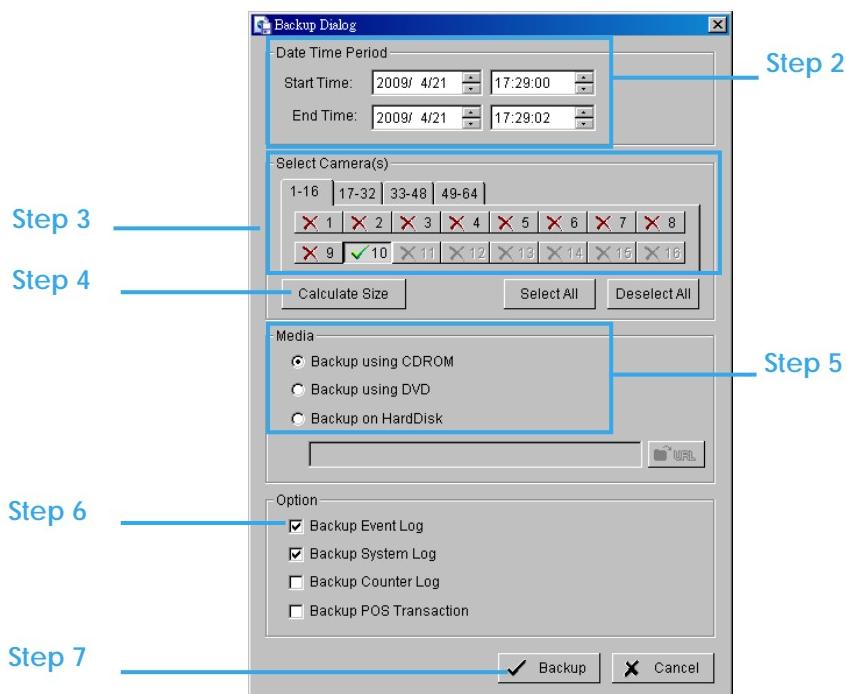
Step 3: You can adjust the Cameras you want to backup.

Step 4: You can calculate the size of the backup data.

Step 5: Select the directory you want to save the backup data including CDROM, DVD or Hard Disk.

Step 6: Check the log you want to backup.

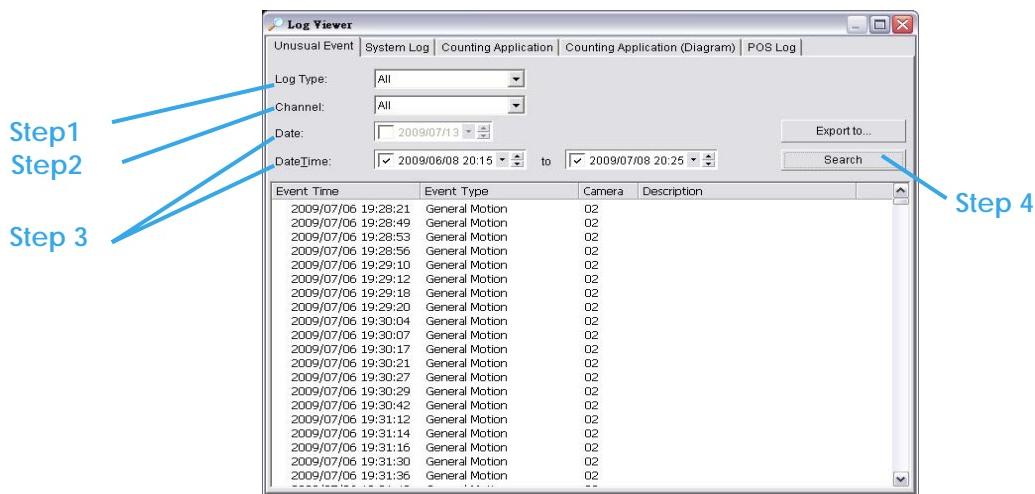
Step 7: Press the **Backup** to start backing up.



2.9 Log Viewer

2.9.1 Unusual Event

View the unusual event history that had been detected by the Smart Guard System.



Step1: Choose the type of events you wish to view or select "All" from the drop-down menu to view all types of events. The types of Unusual Event include General Motion, Foreign Object, Missing Object, Focus Lost, Camera Occlusion, Signal Lost, Disk Space Exhausted, System Health Unusual and Digital Input Triggered.

Step 2: Choose the camera channel you wish to view or select **All** for all the channels available.

Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

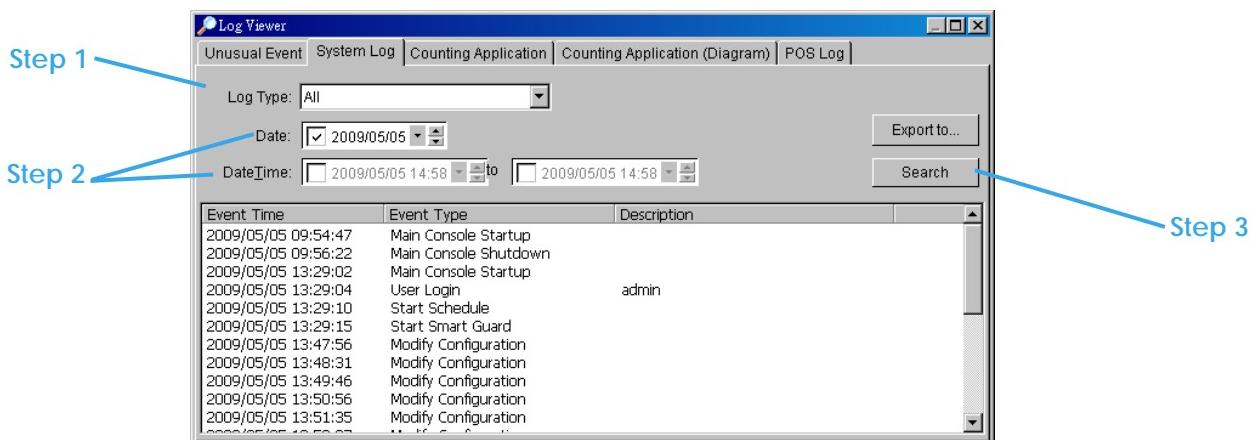
For a period: check the **DateTime** and then enter the specific date and time.

Step 4: Click **Search**.

Note: When working with a video record,

1. Log Viewer will search for Unusual Event in the video record in Date & Time mode, start from the beginning to the end of the record, which is the default setting of the system.
2. A link (🔗) will appear right next to each event time. By clicking on the link, the video will jump to the point where the unusual event takes place.

2.9.2 System Log



Select Log Type from the drop-down menu. There are total 31 types of log types, including:

- | | |
|-------------------------------|---------------------------------|
| ✓ Main Console Startup | ✓ Stop Live Streaming Server |
| ✓ Main Console Shutdown | ✓ Modify Live Streaming Server |
| ✓ User Login | ✓ Start Remote Playback Server |
| ✓ User Login Failed | ✓ Stop Remote Playback Server |
| ✓ Start Schedule | ✓ Modify Remote Playback Server |
| ✓ Stop Schedule | ✓ IP Camera Connection Lost |
| ✓ Execute Recycle | ✓ Auto Restart Windows |
| ✓ Enable Channel | ✓ Modify POS Setting |
| ✓ Disable Channel | ✓ POS Connection Lost |
| ✓ Start Smart Guard | ✓ Modify E-Map |
| ✓ Stop Smart Guard | ✓ Start Remote Desktop |
| ✓ Modify Smart Guard | ✓ Stop Remote Desktop |
| ✓ Modify Schedule | ✓ Modify Remote Desktop |
| ✓ Modify Configuration | ✓ Start Central Management |
| ✓ Start Live Streaming Server | ✓ Stop Central Management |
| | ✓ Modify Central Management |

Step1: Choose the type of event you want to check or select "All" from the drop-down menu for all types of events.

Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

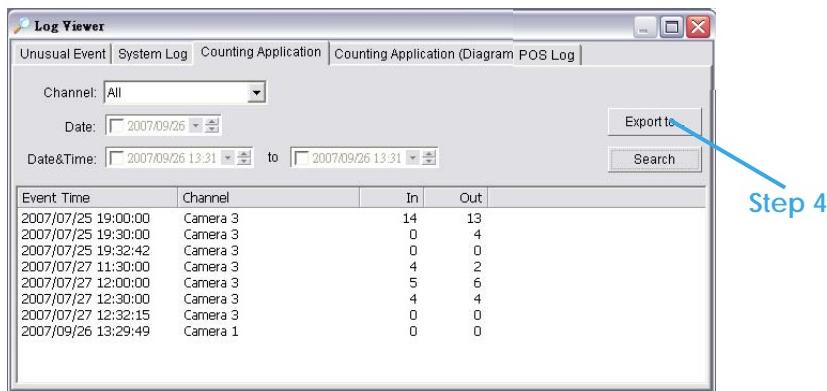
For a particular date: check the **Date** box and indicate the date.

For a period: check the **DateTime** and then enter specific date and time.

Step 3: Click **Search**.

2.9.3 Counting Application

Display the history of Counting Application during a given time period.



Step1: Select the channel you want to check or select **All** from the drop-down menu for all channels.

Step 2: Select search period. View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

For a period: check the **DateTime** and then enter the date and time.

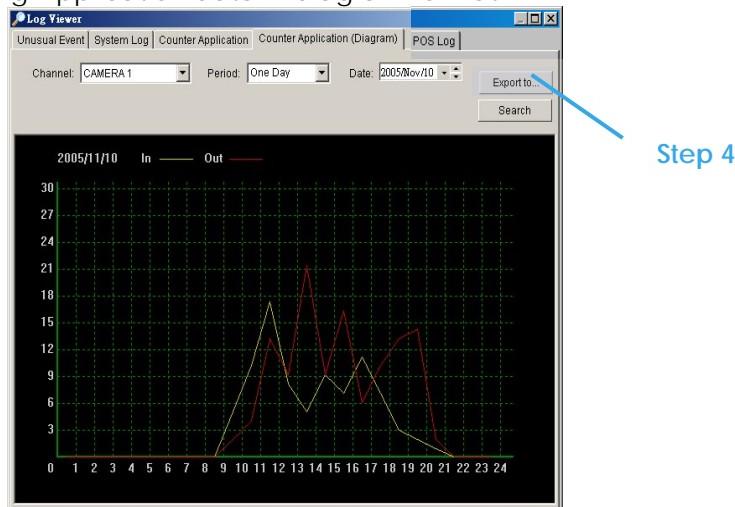
Step 3: Click **Search**.

Step 4: Press the button **Export to**.

Step 5: Type the file name and choose the file format (.xls or .txt).

2.9.4 Counting Application (Diagram)

Display the Counting Application data in diagram format.



Step 4

Step 1: Select the channel you want to check or select **All** from the drop-down menu for all channels.

Step 2: From the drop-down menu, set up how you would like the diagram to be displayed. You have the options of one day, one month, or one year.

Step 3: Select a specific date to make it the start point of the diagram.

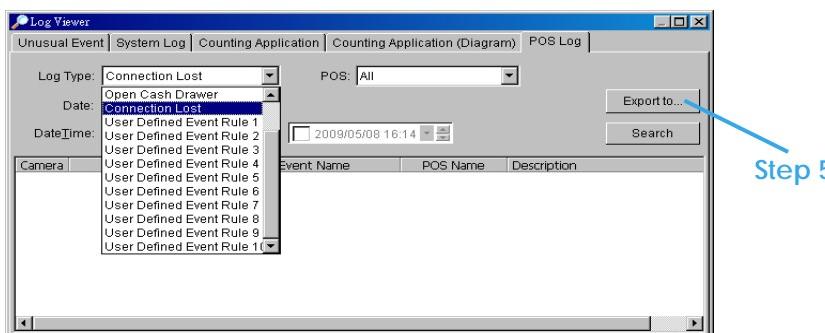
Step 4: Click **Search**.

Step 5: Press the button **Export to**.

Step 6: Type the file name and the file will save as BMP files.

2.9.5 POS Log

View the POS Log history that has been detected by the Smart Guard System.



Step 5

Step 1: Choose the type of events you wish to view or select **All** from the drop-down menu to view all types of events. The types of Unusual Event include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and Special User Defined Event. Please refer the User manual of POS for detail.

Step 2: Choose the camera channel you wish to view or select **All** for all the channels available.

Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box and indicate the date.

For a period: check the **DateTime** and then enter a specific date and time.

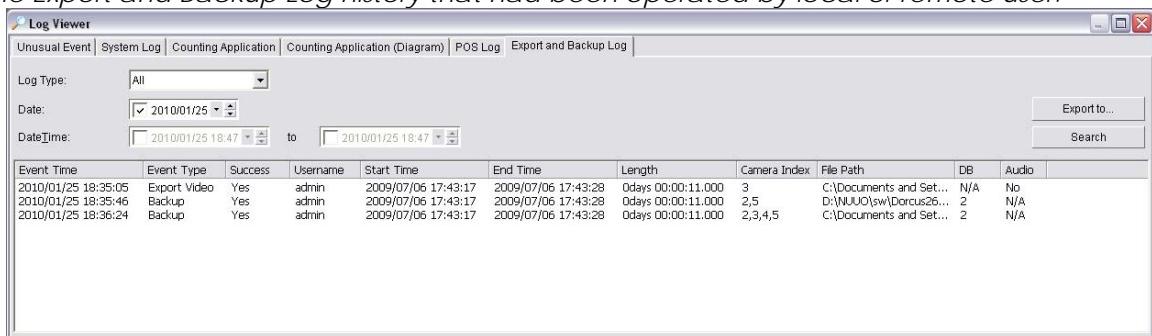
Step 4: Click **Search**.

Step 5: Press the button **Export to**.

Step 6: Type the file name and choose the file format (.xls or .txt).

2.9.6 Export and Backup Log

View the Export and Backup Log history that had been operated by local or remote user.



Step1: Choose the type of event you want to check or select **All** from the drop-down menu for all types of events.

Step 2: View the events that happened on a particular date or during a given time period by selecting search period.

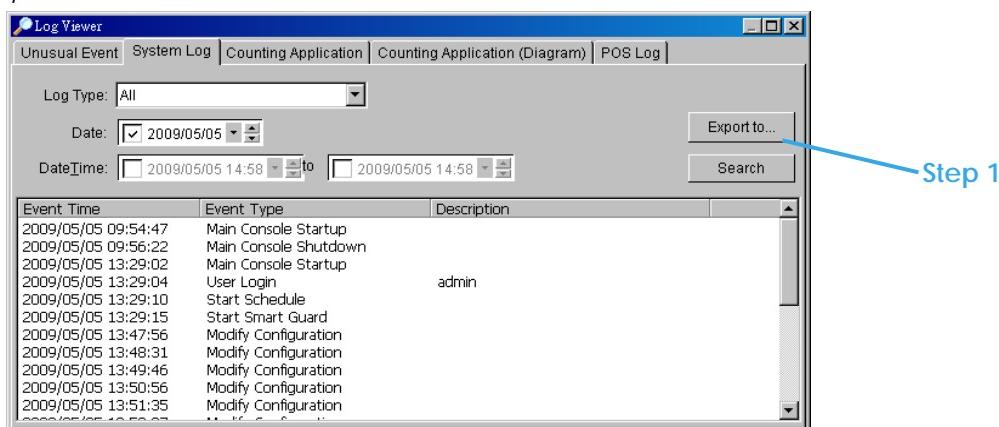
For a particular data: check the **Date** box right and indicate the date.

For a period: check the **DateTime** and then enter the date and time.

Step 3: Click **Search**

2.9.7 Export

You may export the file to .xls or .txt file



Step1: Select **Export to**.

Step2: Type the file name and choose the file format, .xls or .txt.

A	B	C	D	E
1	EventTime	EventType	Description	
2	2007/09/12 00:45:41	Main Console Startup		
3	2007/09/12 00:45:44	User Login	admin	
4	2007/09/12 01:11:10	Main Console Shutdown		
5	2007/09/12 01:27:04	Main Console Startup		
6	2007/09/12 01:27:05	User Login	admin	
7	2007/09/12 01:28:27	Main Console Shutdown		
8	2007/09/12 15:06:51	Main Console Startup		
9	2007/09/12 15:06:52	User Login	admin	
10	2007/09/12 15:07:03	Main Console Shutdown		
11	2007/09/12 15:08:28	Main Console Startup		
12	2007/09/12 15:08:40	Main Console Shutdown		
13	2007/09/12 15:08:54	Main Console Startup		
14	2007/09/12 15:09:09	Main Console Shutdown		
15	2007/09/12 15:14:11	Main Console Startup		
16	2007/09/12 15:14:12	Main Console Shutdown		
17	2007/09/12 15:14:31	Main Console Startup		
18	2007/09/12 15:15:20	Main Console Shutdown		
19	2007/09/12 19:44:15	Main Console Startup		
20	2007/09/12 19:44:58	Main Console Shutdown		
21	2007/09/12 22:51:57	Main Console Startup		
22	2007/09/12 22:51:59	Main Console Shutdown		
23	2007/09/12 22:52:14	Main Console Startup		
24	2007/09/12 22:52:18	User Login	admin	
25	2007/09/12 22:52:28	Main Console Shutdown		
26	2007/09/12 22:53:19	Main Console Startup		

.xls

```
2007/09/12 00:45:41, Main Console Startup,
2007/09/12 00:45:44, User Login, admin
2007/09/12 01:11:10, Main Console Shutdown,
2007/09/12 01:27:04, Main Console Startup,
2007/09/12 01:27:05, User Login, admin
2007/09/12 01:28:27, Main Console Shutdown,
2007/09/12 15:06:51, Main Console Startup,
2007/09/12 15:06:52, User Login, admin
2007/09/12 15:07:04, Main Console Shutdown,
2007/09/12 15:08:28, Main Console Startup,
2007/09/12 15:08:40, Main Console Shutdown,
2007/09/12 15:08:54, Main Console Startup,
2007/09/12 15:09:01, Main Console Shutdown,
2007/09/12 15:14:11, Main Console Startup,
2007/09/12 15:14:12, Main Console Shutdown,
2007/09/12 15:14:31, Main Console Startup,
2007/09/12 15:15:20, Main Console Shutdown,
2007/09/12 19:44:15, Main Console Startup,
2007/09/12 19:44:58, Main Console Shutdown,
2007/09/12 22:51:57, Main Console Startup,
2007/09/12 22:51:59, Main Console Shutdown,
2007/09/12 22:52:14, Main Console Startup,
2007/09/12 22:52:18, User Login, admin
2007/09/12 22:52:24, Main Console Shutdown,
2007/09/12 22:53:19, Main Console Startup,
```

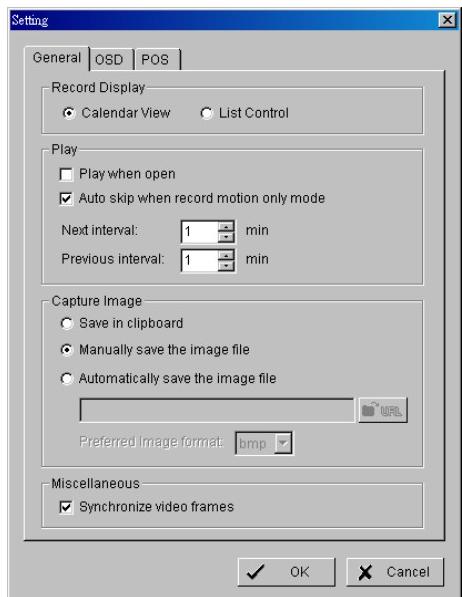
.txt

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2.10 Setting

Record Display setting:

- Calendar View:** Makes the record display calendar view.
- List Control:** Makes the record display list view.



Play setting:

- Play when open:** Check the option and set the system to start playing the video clip every time a record is withdrawn.
- Auto skip when record motion only mode:** Check the option to set up the system to automatically skip to the points where there were motions recorded.
- Next interval:** Set the interval with which the video goes forward when you click on the "Next" icon on the control panel.
- Previous interval:** Set the interval with which the video goes backward when you click on the "Previous" icon on the control panel.

Capture Image setting:

Sets how you want to save the image.

- Save in clipboard:** The image will be saved in the clipboard; image will be available to paste elsewhere.
- Manually save the image file:** You can manually select where you want to save the image. Name the saved file, and choose the file format you want to save as.
- Automatically save the image file:** By pre-setting a path/URL and the image format, the system will automatically save the image accordingly when you click the Save button in the control panel.

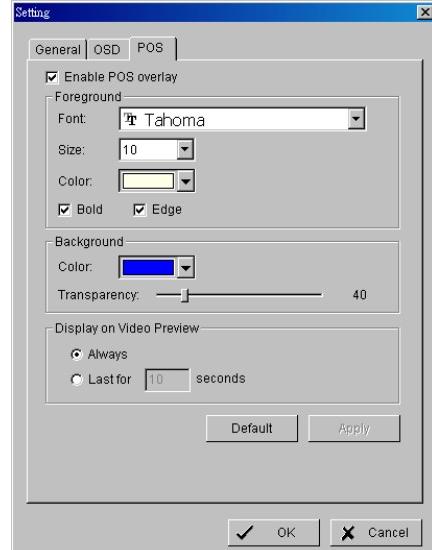
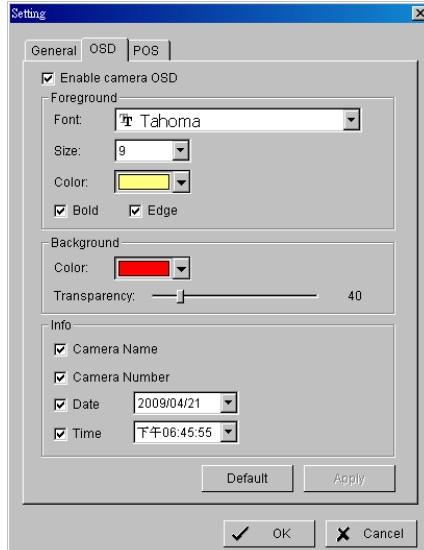
Miscellaneous

- Synchronize video frames:** Select this option in order it to avoid the tearing problem occurring in video display while increasing the CPU loading.

OSD Setting

Enable Camera OSD to display video information on recorded video.

Information includes camera name, camera number, date and time. User can also set up OSD font; include the font, size, font color and any font effects desired.



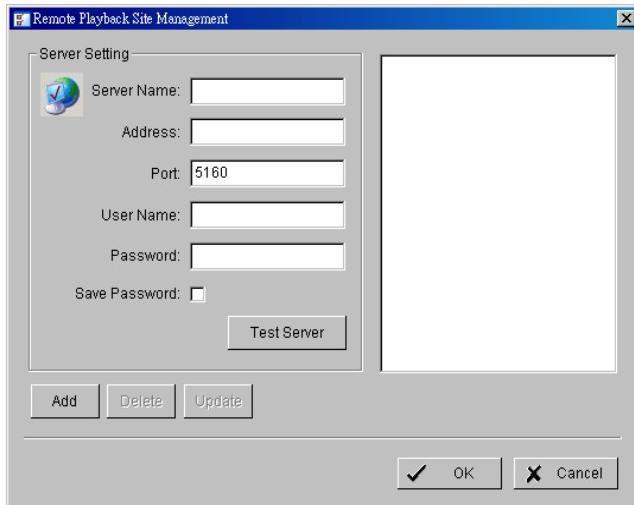
POS Overlay Setting

Enable POS overlay to adjust Font, Size, Color, Bold, Edge in "Foreground" section, color and transparency in "Background" section, and then adjust display settings in "Display on Video Preview".

2.11 Remote Server

2.11.1 Add Remote Playback Site

Press the Remote Server Icon  to go to remote playback site management to add and setup the remote playback site.



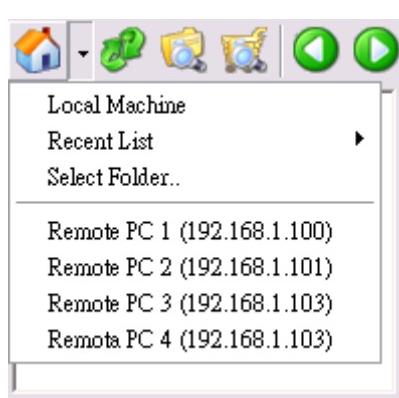
Step 1: Enter the IP address or DNS, Port, Username, and Password.

Step 2: Click **Add** to add the server.

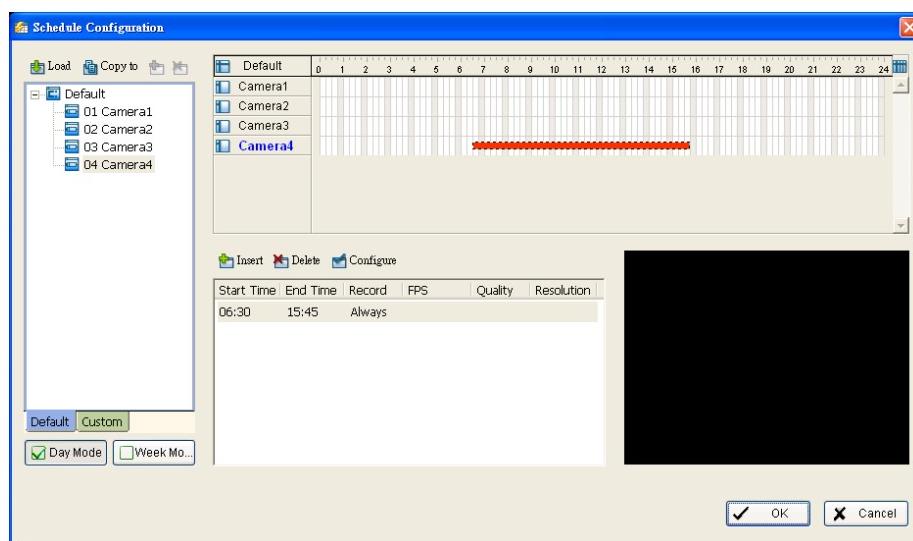
Step 3: Click **OK** to exit the "Settings" panel.

2.11.2 Access Remote Playback Site

Go to Date Time Panel and click on the  icon on the top of the display window to access the Remote Playback Site

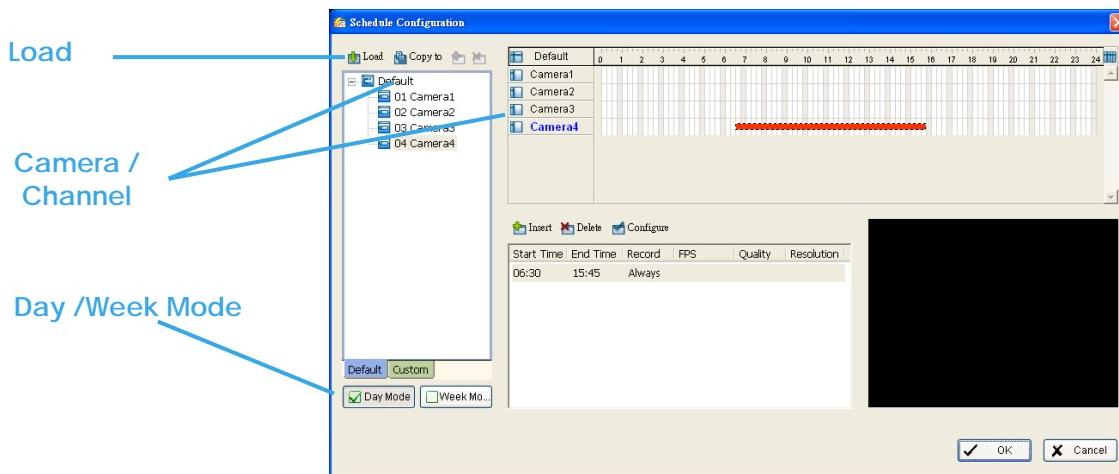


3. Schedule



Click on the Schedule icon on the Main Console and set up the time duration for video recording on the schedule configuration panel.

3.1 Day / week Mode



Day Mode: Schedule the cameras to turn the recorder on and off at the same time every day according to your setting.

Week Mode: Allows you to schedule each camera for a different day of the week, additionally, you may assign extra holidays in the "Week" mode

To setup the time schedule for each camera, you may

1. "Load" the preset modes or
2. "Insert" a new schedule manually or
3. "Copy to" other cameras after manual setup.

3.1.1 Load Preset Modes

The system provides six modes to quickly setup recording schedule. Simply click on the Load for the drop-down menu.

Refer to the below tables for the definitions of each mode in each series.

IP+ series (IP camera)

Mode	Format	Time	Record	FPS	Quality	Resolution
Regular	M-JPEG	0:00-24:00	Always	Max	Max	Max
	MPEG-4			Max		
Office	M-JPEG	8:00-20:00	Always	Max	Max	Max
	MPEG-4			Max		
Shop	M-JPEG	10:00-22:00	Always	Max	Max	Max
	MPEG-4			Max		
Highly Secure	M-JPEG	0:00-24:00	Always	Max	Max	Max
	MPEG-4			Max		
Disk Saving	M-JPEG	0:00-24:00	Motion	10	Max	Max
	MPEG-4			i-frame		
Minor	M-JPEG	0:00-24:00	Motion	5	Max	Max
	MPEG-4			i-frame		

The Max indicates settings are same as camera settings in the config>setting>camera>camera parameter panel.

SCB-1000, SCB-2000, SCB-3000, SCB-4000 series (Analog camera)

Mode	Format	Time	Record	FPS	Quality	Resolution
Regular	MPEG-4	0:00-24:00	Always	30	Normal	CIF
Office	MPEG-4	8:00-20:00	Always	30	Normal	CIF

The Intelligent Surveillance Solution

NUUO NVR/DVR/Hybrid NDVR System

Shop	MPEG-4	10:00-22:00	Always	30	Normal	CIF
Highly Secure	MPEG-4	0:00-24:00	Always	30	Highest	Max
Disk Saving	MPEG-4	0:00-24:00	Motion	30	Normal	CIF
Minor	MPEG-4	0:00-24:00	Motion	15	Low	CIF

SCB-5000 series (Analog camera)

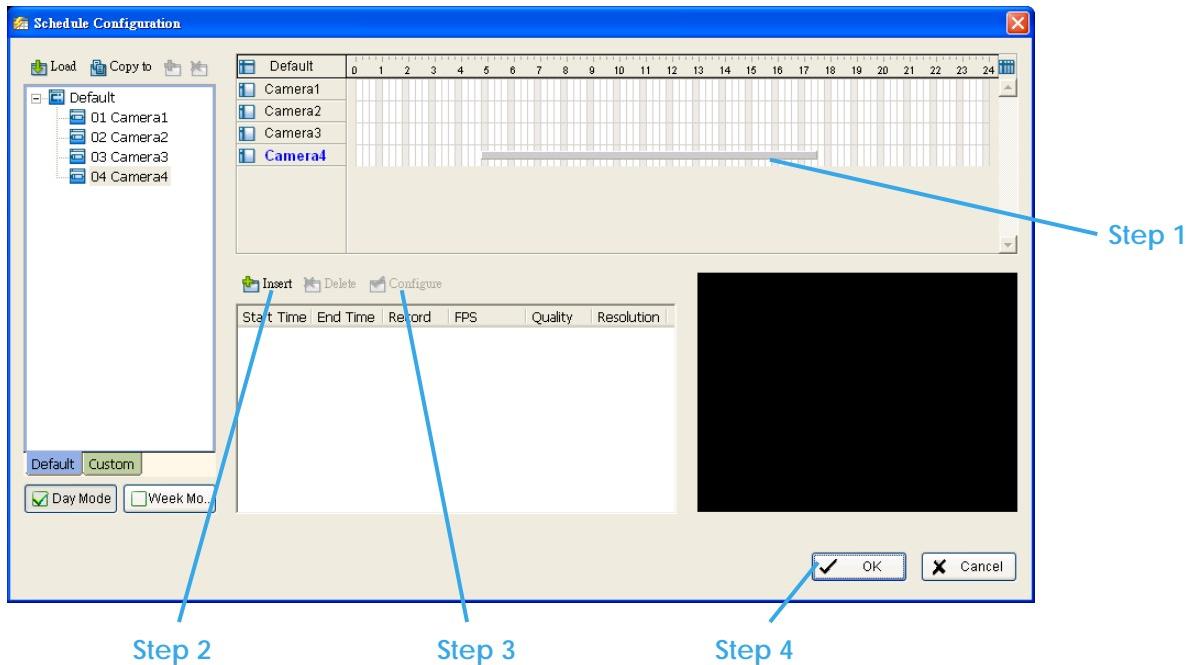
Mode	Format	Time	Record	FPS	Quality	Resolution
Regular	H.264	0:00-24:00	Always	30	Normal	CIF
Office	H.264	8:00-20:00	Always	30	Normal	CIF
Shop	H.264	10:00-22:00	Always	30	Normal	CIF
Highly Secure	H.264	0:00-24:00	Always	30	Highest	DCIF
Disk Saving	H.264	0:00-24:00	Motion	30	Normal	CIF
Minor	H.264	0:00-24:00	Motion	15	Low	CIF

SCB-7000 series (Analog camera)

Mode	Format	Time	Record	FPS	Quality	Resolution
Regular	H.264	0:00-24:00	Always	30	Normal	D1
Office	H.264	8:00-20:00	Always	30	Normal	D1
Shop	H.264	10:00-22:00	Always	30	Normal	D1
Highly Secure	H.264	0:00-24:00	Always	30	Highest	D1
Disk Saving	H.264	0:00-24:00	Motion	30	Normal	CIF
Minor	H.264	0:00-24:00	Motion	15	Low	CIF

3.1.2 Insert a New Schedule Manually

Step 1: Left-click and draw the bar you want add to the time table. The scheduled time will show as a grey bar.



Step 2: Click the **Insert** icon and add a new schedule in the Regular Mode, i.e. to record video during the time period you set with 30 FPS, normal video quality, and normal resolution.

Step 3: Change the setting by clicking on the **Configure** icon (See page 50 for detail) or double click the **Schedule Information**.

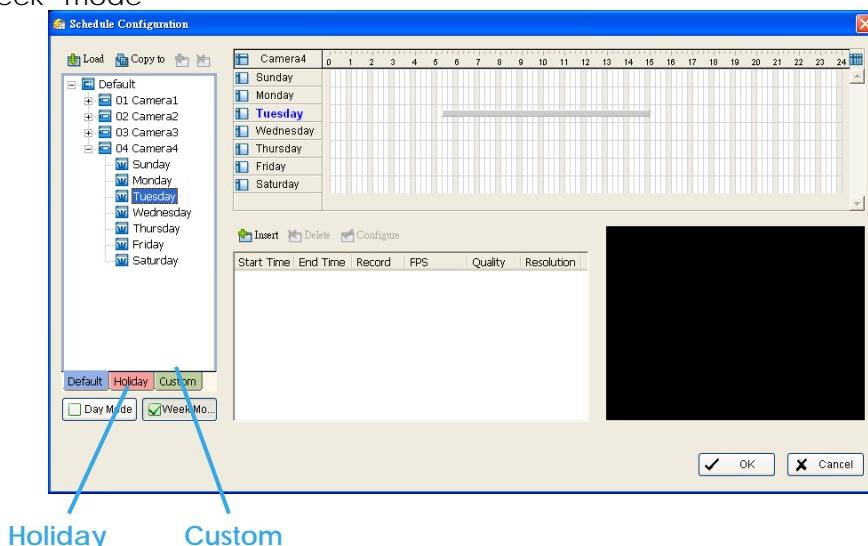
Step 4: Click **OK**.

3.1.3 Copy Schedule

You may set up the schedule for each channel/camera by repeating the process above, or by simply applying the setting of a single camera to all the others by clicking the **Copy To** icon at the top of the display window.

3.1.4 Holiday and Custom setting

Allows you to schedule each camera for a different day of the week, additionally, you may assign extra holidays in the "Week" mode



Holiday: You may assign holidays where the system will work according to the setting for Sunday.

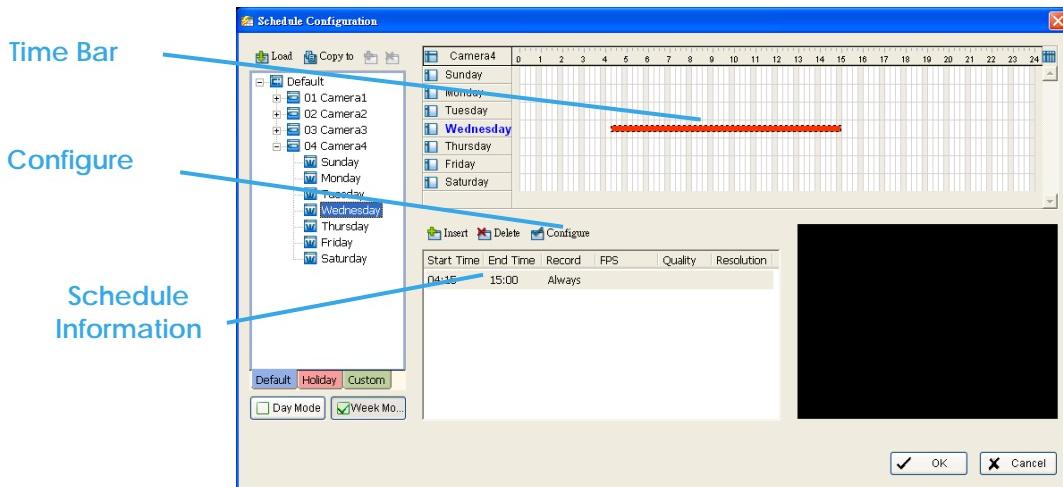
Note: The default Holiday setting will apply Sunday's settings. For the Middle East region where Friday is a holiday, please adjust setting by right clicking on Holiday and select "Apply Holiday Schedule From...".

Custom: You can assign a particular date(s) on which the system will work according to a special schedule(s) different from the others.

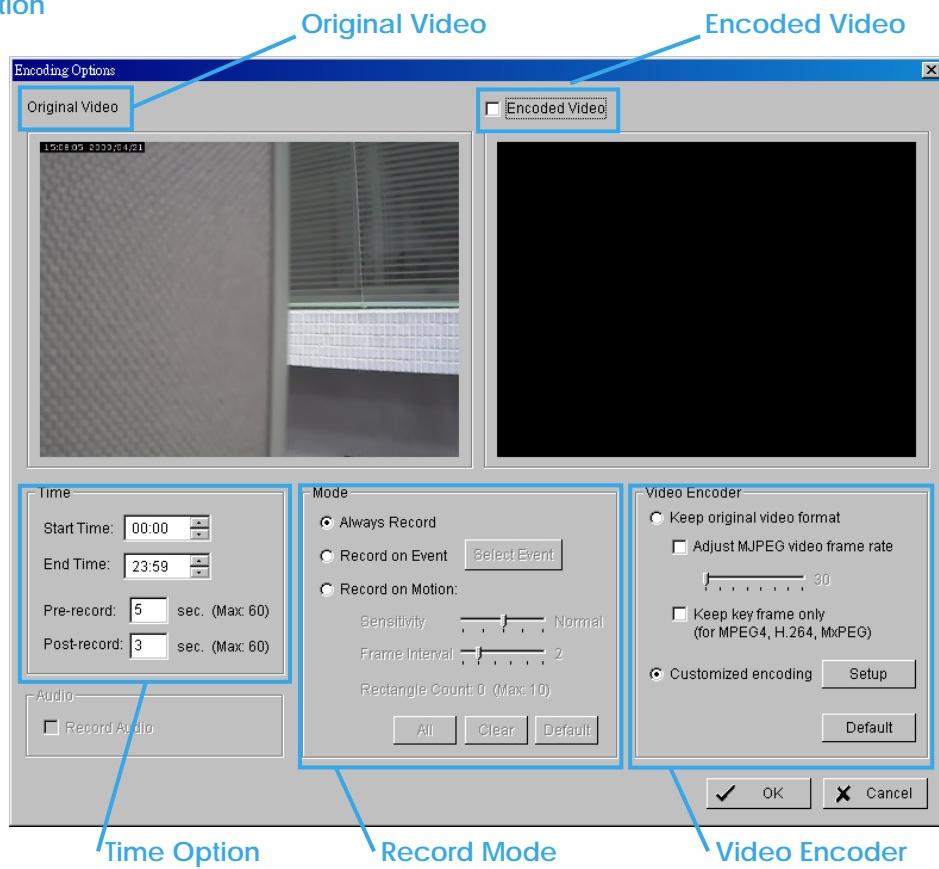
3.2 Adjust the Scheduled Setting:

You can manually change the setting at any time after you insert or load a schedule.

- **Option 1:** Move the cursor to the "Time Bar" and change the length or move the bar sideways to change the start and end points.
- **Option 2:** Click on the **Configure** icon or double click on "Schedule Information" from the list to obtain the "Encoding Option" panel (next page) and select the desired setting.



3.3 Encoding Option



3.3.1 Pre-record/ Post-record Time

The pre-record/ post-record function saves the recording data accordingly. For instance, to set up a 5 second pre-record time means the system will start saving the recording data 5 seconds before the event happens.

Note: The maximum of pre-record/post record period is 60 seconds.

3.3.2 Record Mode

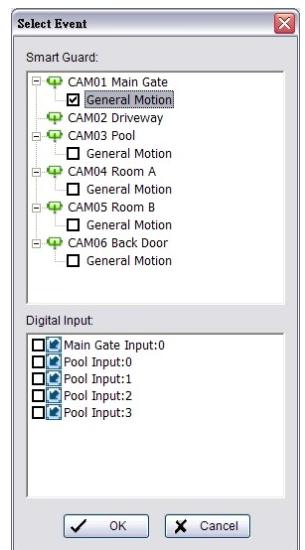
Always Record:

Select this option to record the video continuously.

Record on Event:

Select this option to obtain the "Select Event" panel. From the Smart Guard list, check the camera events or digital inputs to trigger the recorded action. Click **OK**.

Note: A prerequisite to trigger the recording schedule of camera/DI/POS event is to enable "Smart Guard" function in MainConsole panel first.



Record on Motion:

Select this option to start recording when motions are detected. Adjust sensitivity, the frame interval and zone to setup motion detection. To setup single detection zone, left-click and drag the mouse to draw a rectangle. To setup more than one detection zone, simply repeat the same process or click "All" to select the entire detection zone.

Note: The rectangle number cannot exceed 10.

3.3.3 Encoded Options

This option sets up the quality of the recorded video. The "Original Video" window is the original stream from the camera. The "Encoded Video" is preview of the recorded video corresponding with the encode settings below.

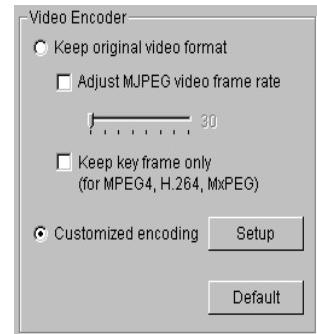
For IP camera

The Encode Video function will drop frame or re-encoded original streaming from IP cameras. To save Hard Disk usage, adjust FPS with original video format or re-encode to small size by adjust FPS, resolution and Quality/Bit rate.

Keep Original Video format:

Select this option to drop down frame rate only but not to re-encode video stream to save Hard Disk usage.

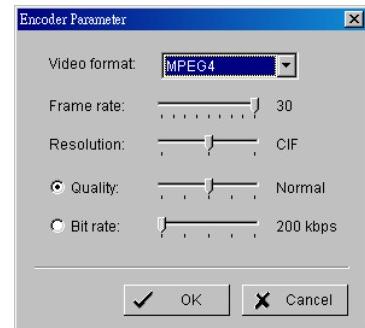
- Adjust MJPEG video frame rate: Move slider to left to reduce frame rate.
Note: The maximum FPS will be correspond with original video stream set up on camera configuration.
- Keep key-frame only: System will only record key frames of video streaming.
Note: The key frame interval is controlled by each camera manufacturer and cannot be adjusted.



Customized encoding:

The video stream would be decoded then re-encoded by configuration. Click "Setup" button to adjust "Encoder Parameter".

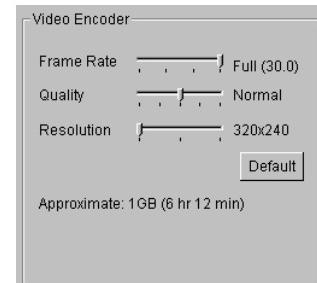
Note: Customized encoding function causes high CPU usage, make sure the PC specification is enough (recommend Core 2 Quad)



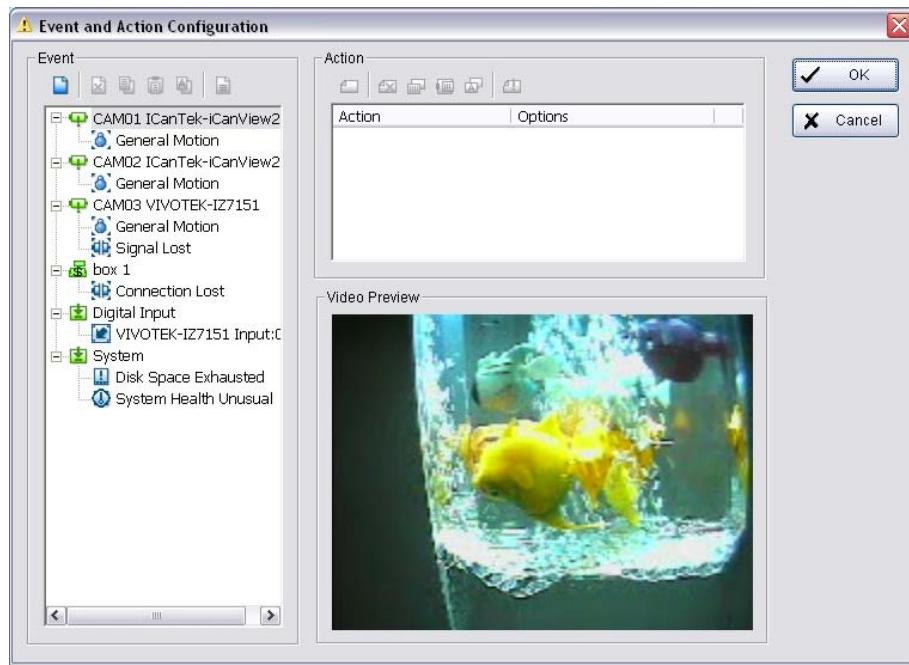
For Analog camera

The Encode Video function sets Frame Rate, Quality, and Resolution that you want to record and provides an approximate recorded time period.

Note: The capture device "SCB series" required.



4. Guard



Click on the **Guard** button on the Main Console to start the “Event and Action Configuration” panel. You will need to specify an event to be detected as well as set the appropriate action for the system when the event occurs.

Note:

1. **Crystal Ball:** Indicates the working status of the system, blue color rolling when system is recording; red when an event is detected.
2. **Event Report:** When the crystal ball is red, you can click it to obtain the Smart Guard Event Report and cancel the event(s).

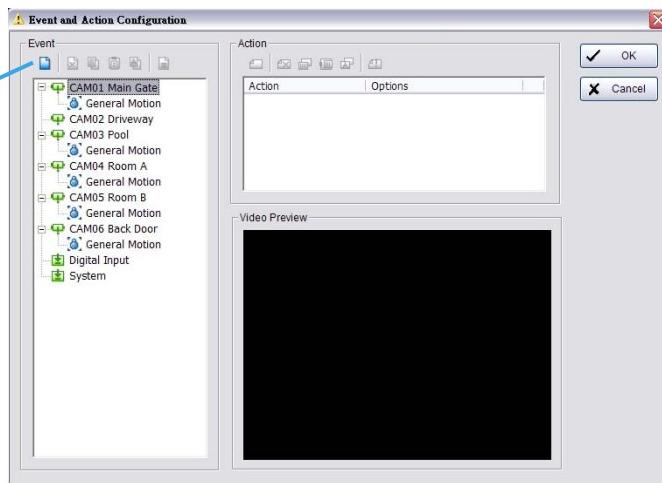


Smart Guard Event Report			
Event Time	Event Type	Camera	Description
2005/11/21 15:16:14	General Motion	9	
2005/11/21 15:16:29	Missing Object	13	

Cancel Event Cancel All Close

4.1 Event

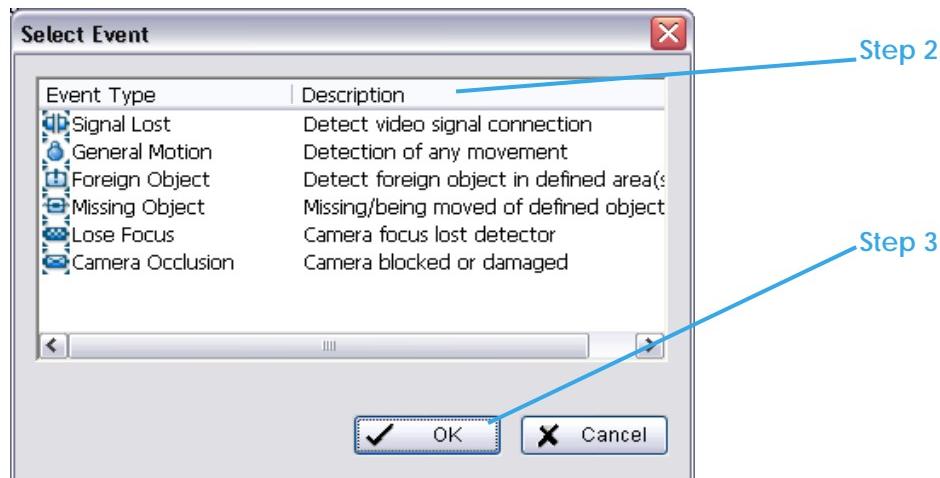
Insert Event



There are 4 sources of events: Camera (video image), POS, Digital Input (device connected to your PC) and System (condition of your hardware). You can assign multiple events by following the instructions below.

4.1.1 Camera Event - Assign a Camera Event

Step 1: Select a camera and click "Insert Event" icon.



Step 2: There are six types of events: Signal Lost, General Motion, Foreign Object, Missing Object, Lose Focus, and Camera Occlusion. Select the event you want on the Event Type list, and then click OK.

Step 3: Configure the Event Type. See the following instructions.

4.1.2 Camera Event – Basic Setting

[Signal Lost, General Motion, Foreign Object, Missing Object, Focus Lost, and Camera Occlusion]

Enable Event: Check the box to activate the event.

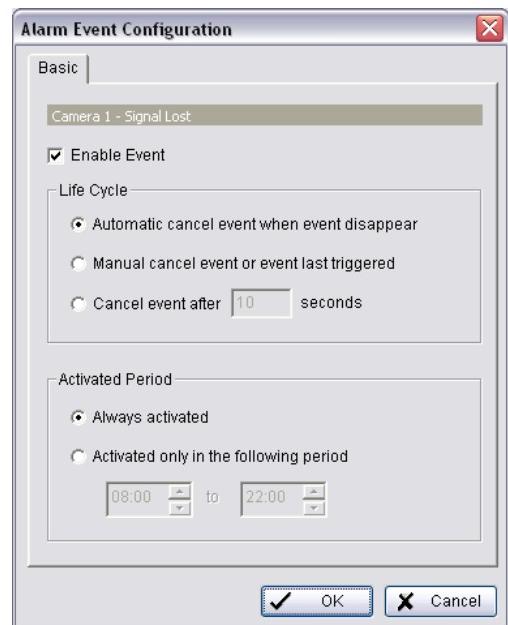
Life Cycle:

- **Automatically cancel event when event disappears:** the alarm/action will be cancelled once the abnormality is fixed or ends.
- **Manually cancel event or event continues triggered:** The alarm/action will continue until being canceled from the Main Console. The user currently not at the seat watching the screen will be notified by the alarm.

Note: To cancel the event:

Function 1: Start > Open Event Report > Cancel All Events

Function 2 : Click the red crystal ball to obtain the Smart Guard



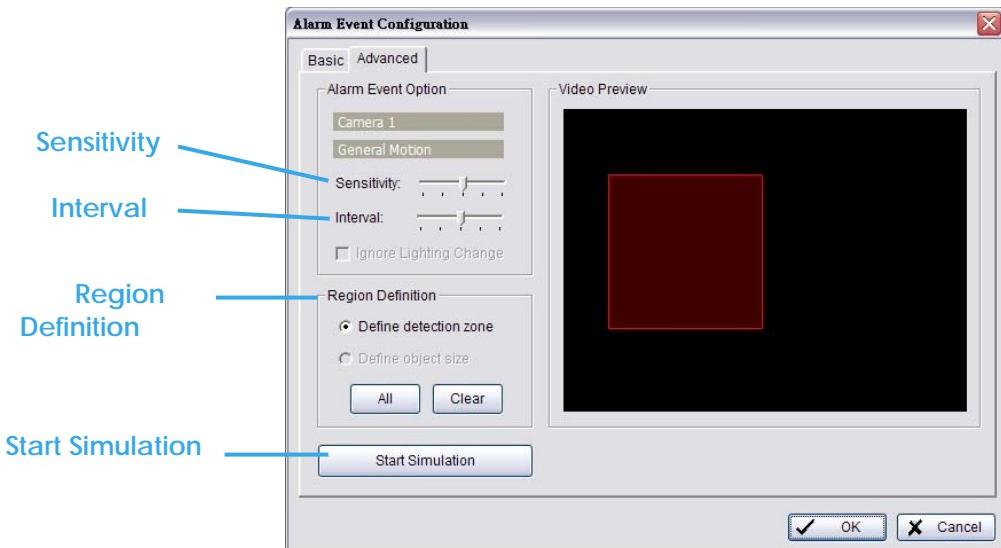
- Event Report than cancel the event(s).
- **Cancel event after timeout xx seconds:** Enable checkbox and set the timeout seconds to cancel the event after a specific time whether the event disappears or not.

4.1.3 Camera Event - Signal Lost

Detect the loss of video signal from camera.

4.1.4 Camera Event - General Motion

- Detect any movement in the defined detection zone.



Alarm Event Option:

- **Sensitivity:** Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity. Setting up an appropriate sensitivity value will minimize false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- **Interval:** Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval

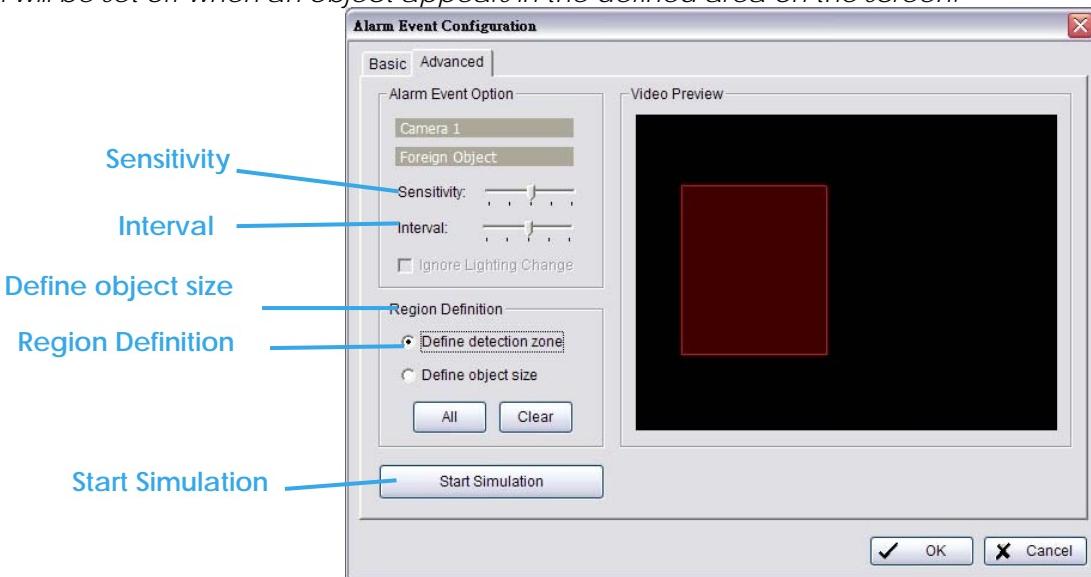
Region Definition:

- **Define detection zone:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.5 Camera Event - Foreign Object

Alarm will be set off when an object appears in the defined area on the screen.



Alarm Event Option:

- Sensitivity:** Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detected. Setting up an appropriate sensitivity value will minimize false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval:** Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval.

Region Definition:

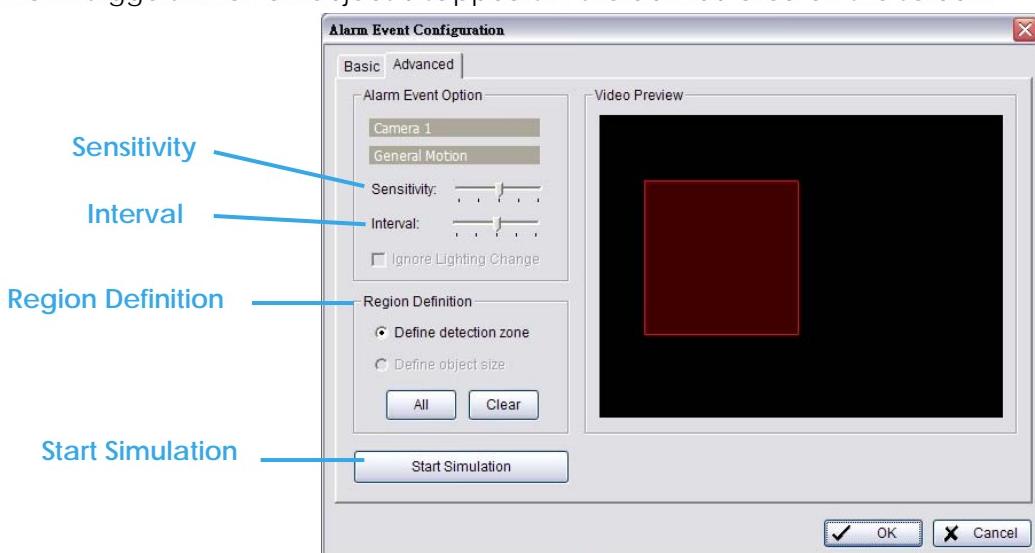
- Define detection zone:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.
- Define Object size:** After defining the detection zone, select Define Object Size and then left-click and drag the mouse to indicate the size of the object you want to detect.

Note: For instance, if you want to prevent somebody from leaving a briefcase in a hallway, place a briefcase in the hallway in view of the camera. On the screen, draw an area that fits the size of the briefcase and define it as the object size. Remove the briefcase and then activate the Smart Guard function on the Main Console. The system will consider everything on the screen normal when you click Start to activate the monitor function.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.6 Camera Event - Missing Object

Alarm triggers when an object disappears in the defined area on the screen.

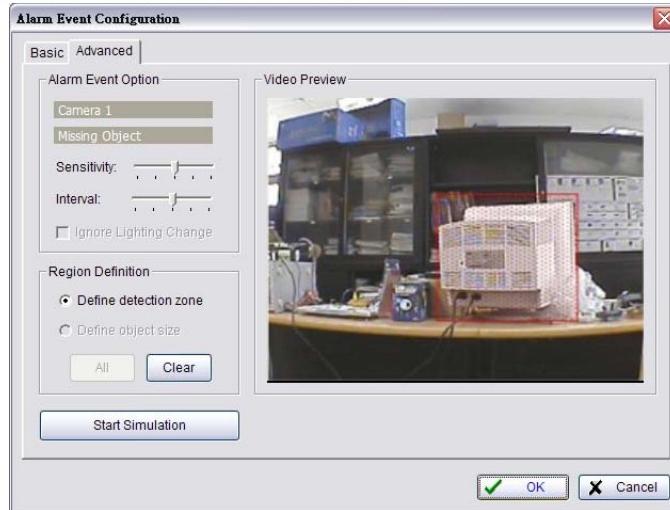


Alarm Event Option:

- Sensitivity:** Click and move the slider control to the right to increase sensitivity so that minimal movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement. Setting up the appropriate sensitivity value will reduce the chance of false alarms. For example, you can lower the sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval:** Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval.

Region Definition:

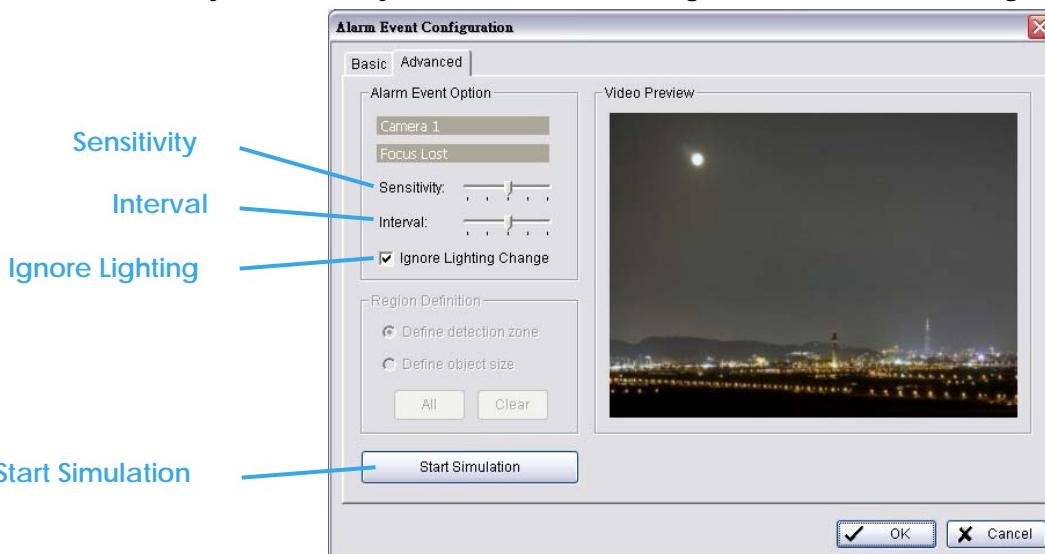
- Define detection zone:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.
Note: For instance, if you want to prevent somebody from removing the computer monitor on the desk, draw an area that fits the size of the monitor on the screen.



Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.7 Camera Event - Lose Focus

This function alarms you when any of the cameras is losing focus and has blur image.



Alarm Event Option:

- Sensitivity:** Click and move the slider control to the right to increase sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- Interval:** Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval time.
- Ignore Lighting:** Check the box to avoid alarm being set off by light changing.

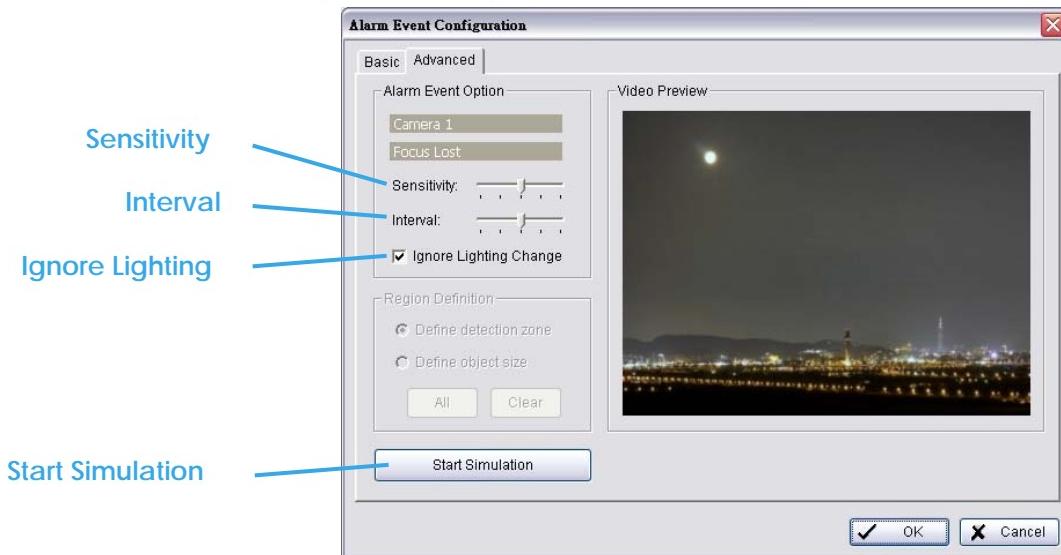
Region Definition:

- **Define detection zone:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.8 Camera Event - Camera Occlusion

This function alarms you when any of the cameras are blocked.



Alarm Event Option:

- **Sensitivity:** Click and move the slider control to the right to increase sensitivity so that a relatively small movement will trigger the alarm. Move the bar to the left to reduce the sensitivity of movement detection. Set up an appropriate Sensitivity value will reduce the chance of false alarm. For example, you can lower the Sensitivity to avoid the alarm being triggered by a swinging tree in the breeze.
- **Interval:** Click and move the slider control to the right to increase interval time so that the alarm will only be triggered when the movement lasts longer. Move to the left to reduce the interval time.
- **Ignore Lighting:** Check the box to avoid alarm being set off by light changing.

Region Definition:

- **Define detection zone:** To detect General Motion, you have to define a detection zone. Left-click and drag the mouse to draw a detection zone. You may define more than one zone on the screen by repeating the same process. User can also click on "All" button to select the entire detection zone.

Start Simulation: Click the Start Simulation button and test the function on the preview screen.

4.1.9 POS Event - Assign a POS Event

Step 1: Select a POS device from the list and click to insert event.

Note: You should insert the POS device in Config -POS Application first, and then you could set the alarm base on it.

Step 2: There are five types of events: Transaction Start, Transaction End, Open Cash Register, Connection Lost and User Defined. Select the event you want on the Event Type list, and then click OK.

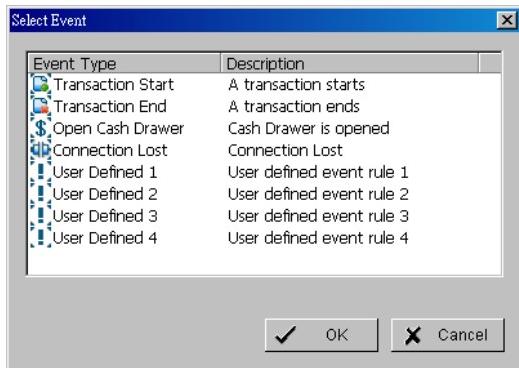
Transaction Start - Detect any transaction beginning.

Transaction End - Detect any transaction ending.

Open Cash Drawer - Detect any cash drawer opening.

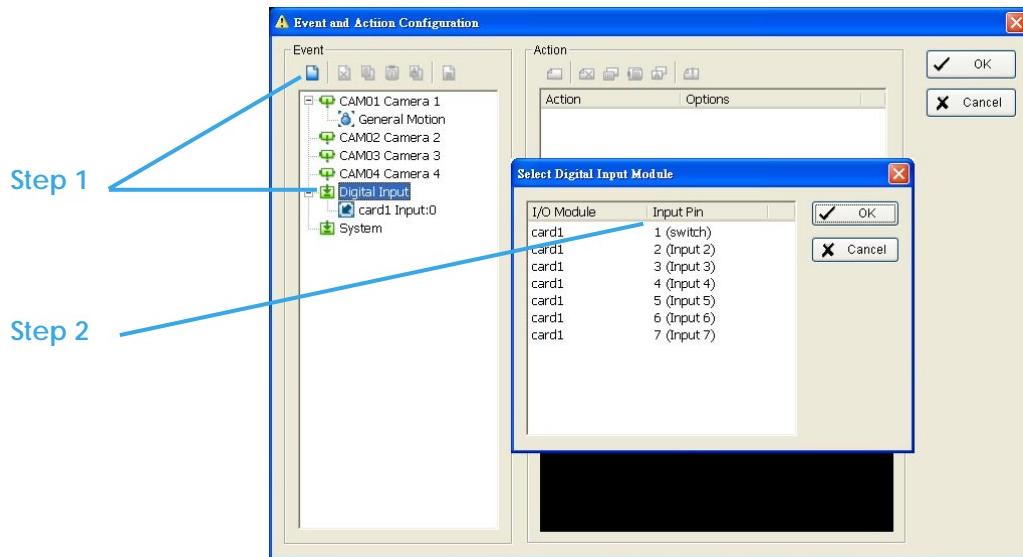
Connection Lost - Detect the connection abnormal event between POS box and Main Console.

User Defined - Detect any condition defined by user.



Step 3: Configure the setting of the Event Type. Please refer to the POS section of the User manual.

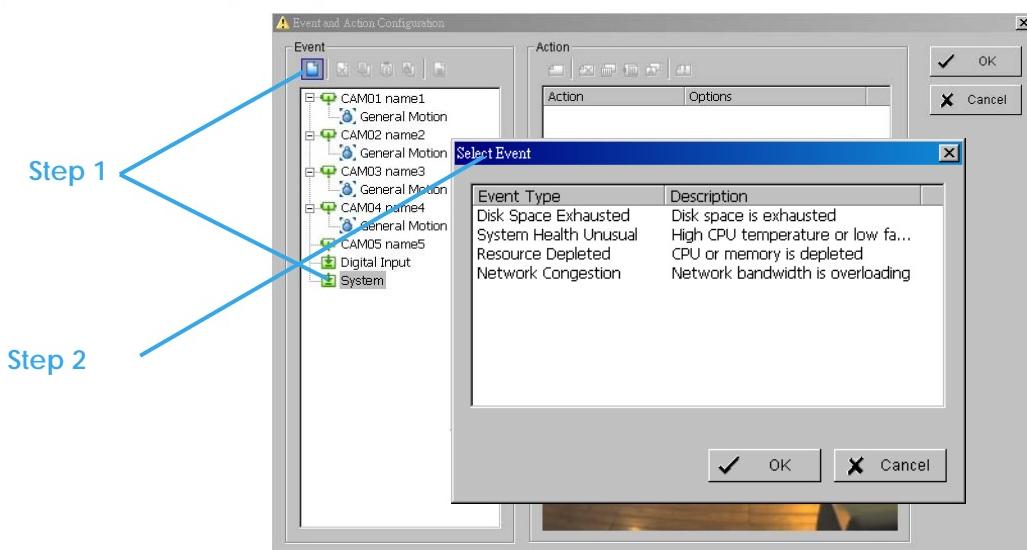
4.1.10 Digital Input Event - Digital Input Event



Step 1: Click and highlight Digital Input on the event type list, and then click the Insert Event icon.

Step 2: Select the device that is connected to your system, that is, the PC you are working with.

4.1.11 System Event - Assign a System Event



Step 1: Click and highlight System on the event type list, and click the Insert Event icon.

Step 2: There are four events, select the event you want to detect.

4.1.12 System Event - Disk Space Exhausted

This function alarms you when disk space is exhausted.

4.1.13 System Event - System Health Unusual

This function alarms you when high CPU temperature or low fan speeds exist.

Current Status: Show you the current CPU temperature, Motherboard Temperature, Fan Speed and Power fan speed.

Options: Check the Temperature Format Celsius or Fahrenheit; adjust the High (Motherboard) Temperature Alarm at what temperature degrees and Low (Power) Fan Speed Alarm at what RPM (revolutions per minute).

4.1.14 System Event – Resource Depleted

This function alarms you when CPU or memory is depleted.

Current Status: Shows you the current Total CPU Loading and Total Memory Usage.

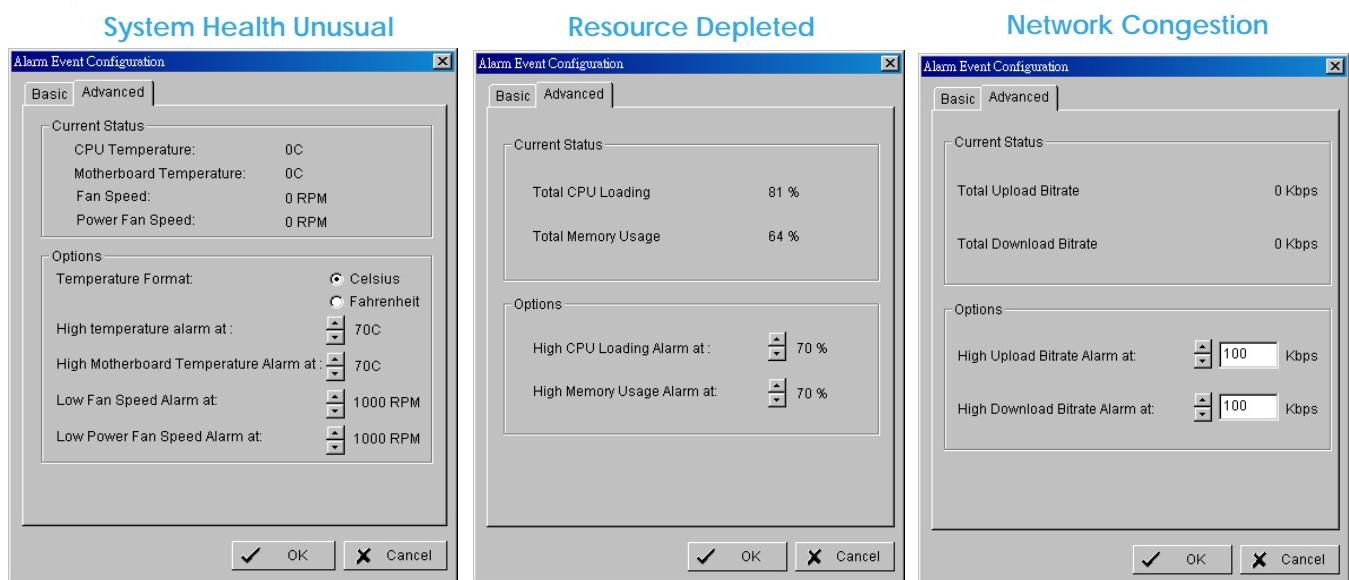
Options: Check the High CPU Loading Alarm and High Memory Usage Alarm at what Percentage.

4.1.15 System Event – Network Congestion

This function alarms you when network bandwidth is overloading.

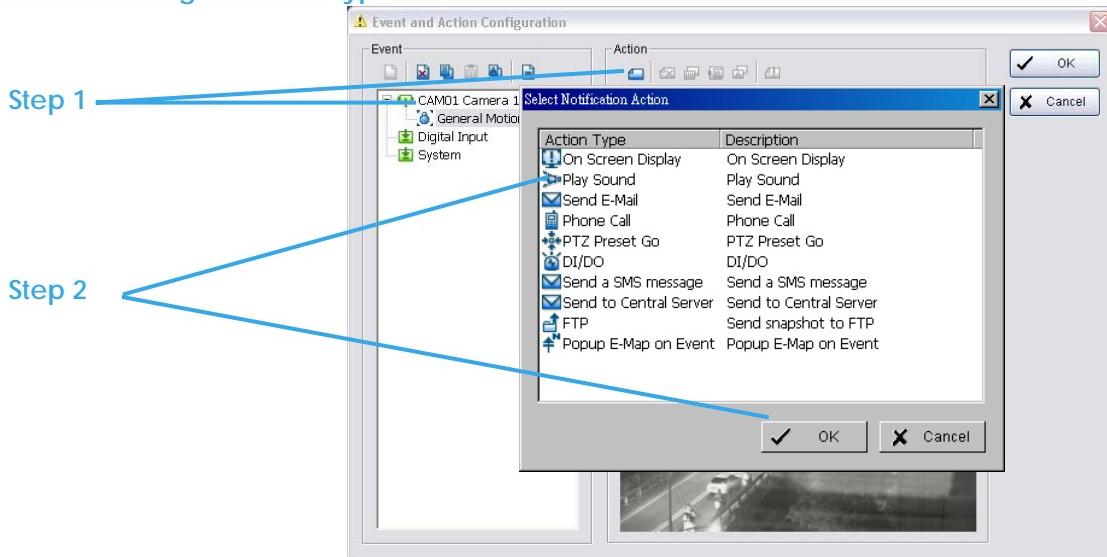
Current Status: Show you the current Total Upload Bit rate and Total Download Bit rate.

Options: Check the High Upload Bit rate Alarm and High Download Bit rate Alarm at what Kbps (kilobits per second).



4.2 Action

4.2.1 Action - Assign a action type



To insert a new action:

Step 1: Choose an event and click the insert action icon .

Step 2: There are 10 types of actions, select the action you want on list and then click OK.

- | | |
|----------------------|---------------------------|
| 1. On Screen Display | 6. DI/DO |
| 2. Play Sound | 7. Send a SMS Message |
| 3. Send E-mail | 8. Send to Central Server |
| 4. Phone Call | 9. Send snapshot to FTP |
| 5. PTZ Preset Go | 10. Popup E-Map on event. |

Step 3: Configure the setting of the Action Type if needed.

4.2.2 Action Type - On Screen display

A red warning will be flashing on the screen of Main Console, indicating which type of unusual event is detected.

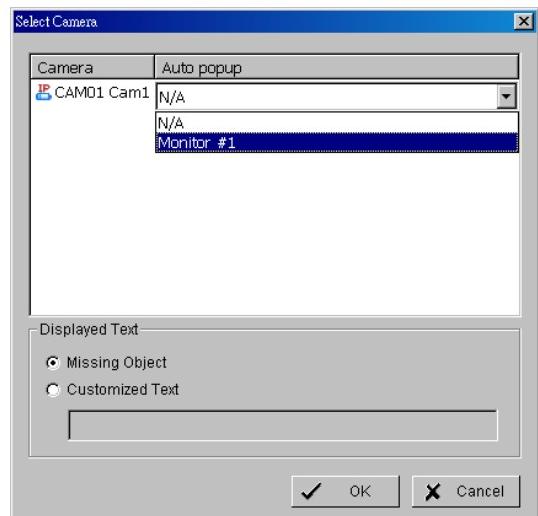
Step 1: Select the "On Screen display" action and then click OK.

Step 2: The responding window will popup to Selected Camera. Click the "On Screen display" indicator to modify the setting.

Camera: Display the camera applied to this action.

Auto popup: Click the Auto popup column and select the expected monitor for popping up the event.

Displayed text: You can follow the default setting to show the event type, or enable "Customized Text" to define the text as your preference.



4.2.3 Action Type - Play Sound

Sound alarm – the system will play the sound as alarm when an unusual event is detected.

Step 1: Select the "Play Sound" action and then click OK.

Step 2: The responding window will popup to choose a Wave file (.wav). Click the "Play Sound" indicator to modify the setting.

4.2.4 Action Type - Send E-mail

The system will send an E-mail immediately to given accounts indicating the type of event, the time, and attaching a picture taken while the event is detected.

Step 1: Select the "Send E-mail" action and then click OK.

Step 2: The responding window will popup to Select Contact, type the message to append. (You can choose more contacts).

Edit Address Book: Insert the contact information here.

Note: To give the system the E-mail accounts, go to Config > Setup > Hotline. See Configuration at page 73 for detail.



4.2.5 Action Type - Phone Call

The system will call a given phone number when an unusual event is detected.

Step 1: Select the Phone Call action and then click OK.

Step 2: The responding window will popup to Select Contactor and key-in the message which want to append on SMS content. (You can choose one more contact at once).

Note: To setup the phone number and make an audio record for the phone call, go to Config - Setup - Hotline. See Configuration on page 73l.

4.2.6 Action Type - PTZ Preset Go

The PTZ (pan/tilt/zoom) camera will go to a preset point or auto patrol when an unusual event is detected.

Step 1: Select the "PTZ Preset Go" action and then click OK.

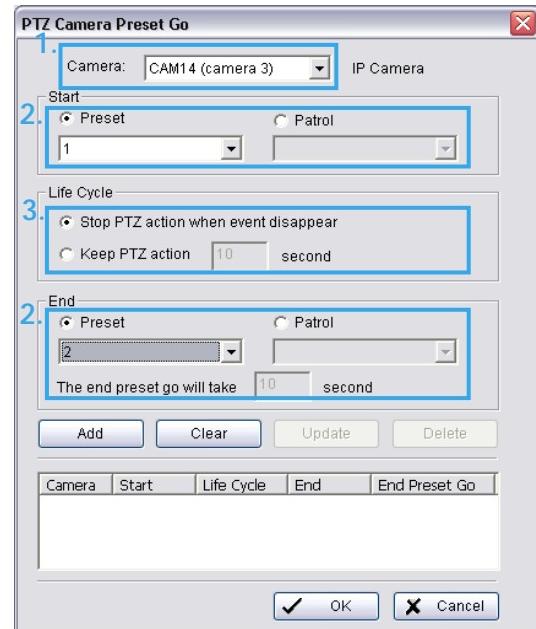
Step 2: The responding window will pop up to PTZ Camera Preset Go. Click the "PTZ Preset Go" indicator to modify the setting.

Step 3: Set the action of cameras which you want to trigger by events.

For example: Please follow below steps to setup this function.

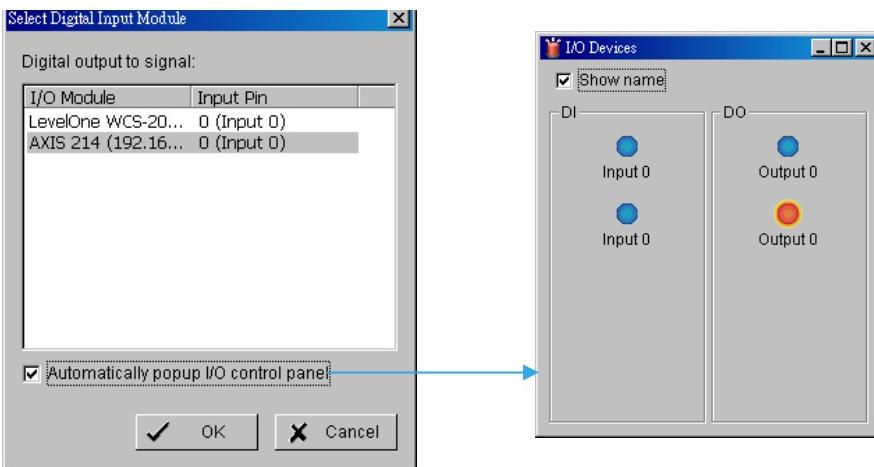
- **Set the action of camera 1:**
 1. Choose camera 1.
 2. Set the start, end preset points.
 3. Select the Life Cycle.
 4. Click on Add.
- **Set the action of camera 2:**
 5. Choose camera 2.
 6. Set the start patrol and end patrol.
 7. Select the Life cycle
 8. Click on Add.
 9. Finally click on Ok to save all setting of cameras.

Note: Configure your PTZ camera before using this function. See Config on page 71 for PTZ camera configuration.



4.2.7 Action Type - DI/DO

To trigger Digital input/output devices those connect to the system, such as alarm lights and sirens.



Step 1: Select the "DI/DO" action and then click OK.

Step 2: The responding window will prompt user to Select Digital Input Module. Click the "DI/DO" indicator to modify the setting.

Step 3: Select the device that is connected to your system, that is, the PC you are working with. You can enable the Automatically Popup I/O Control Panel check box to obtain the correspondent panel to monitor the I/O status.

Note: You should adjust the setting of I/O device in Config>Setting>I/O Device first, the I/O control panel will display the device status based on it. You can also adjust the size of the panel by dragging a mouse or click the on the right top of the display window.

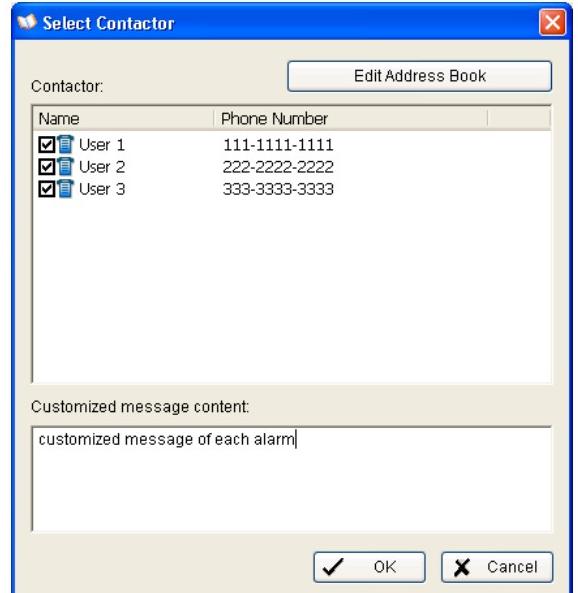
4.2.8 Action Type -Send a SMS message

The system will send a SMS message immediately to given accounts indicating the type and time of event.

Step 1: Select the "Send a SMS message" action and then click OK.

Step 2: The responding windows will popup to Select Contactor (You can choose one or more contacts). Click the "Send a SMS message" indicator to modify the setting.

Note: To give the system the GSM modem, go to Config - Setup - Hotline. See Configuration at page 73!.



4.2.9 Action Type - Send to Central Server

The system will send an Event to Central Server.

Step 1: Select the "Send to Central Server" action and then click OK.

Note: The detail please refers the user manual of Central Management System.

4.2.10 Action Type - Send snapshot to FTP

The system will upload a snapshot immediately to FTP site.

Step 1: Select the "Send snapshot to FTP" action and then click OK.

Note:

1. For Digital Input Event, this warning action will send the snapshot of first camera which selected on "On Screen Display" warning action.

2. To give the system the FTP server, go to Config > Setup > Hotline. See Configuration at page 73 for detail.

4.2.11 Action Type – Popup E-Map on Event

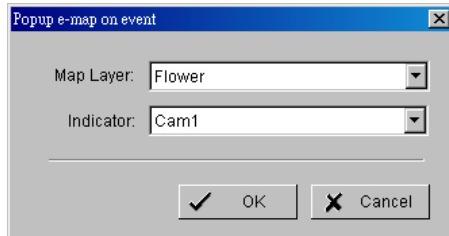
The system will auto popup E-Map window and show the assigned map and indicator.

Step 1: Select the "Popup E-Map on Event" action and then click OK.

Step 2: The responding window will popup to Popup e-map on event. Click the "Popup E-Map on Event" indicator to modify the setting.

Step 3: Select the Map Layer and Indicator, and then click OK.

Note: To edit E-Map, see Configuration at page 85.



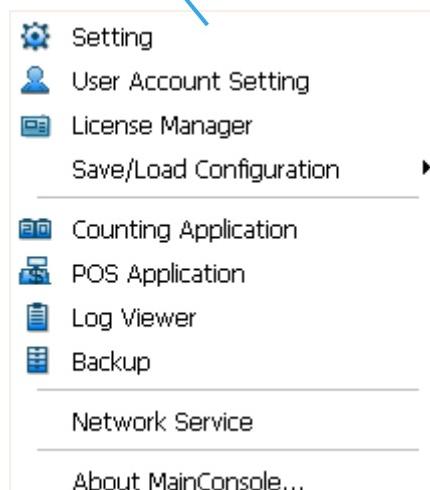
5. Configuration



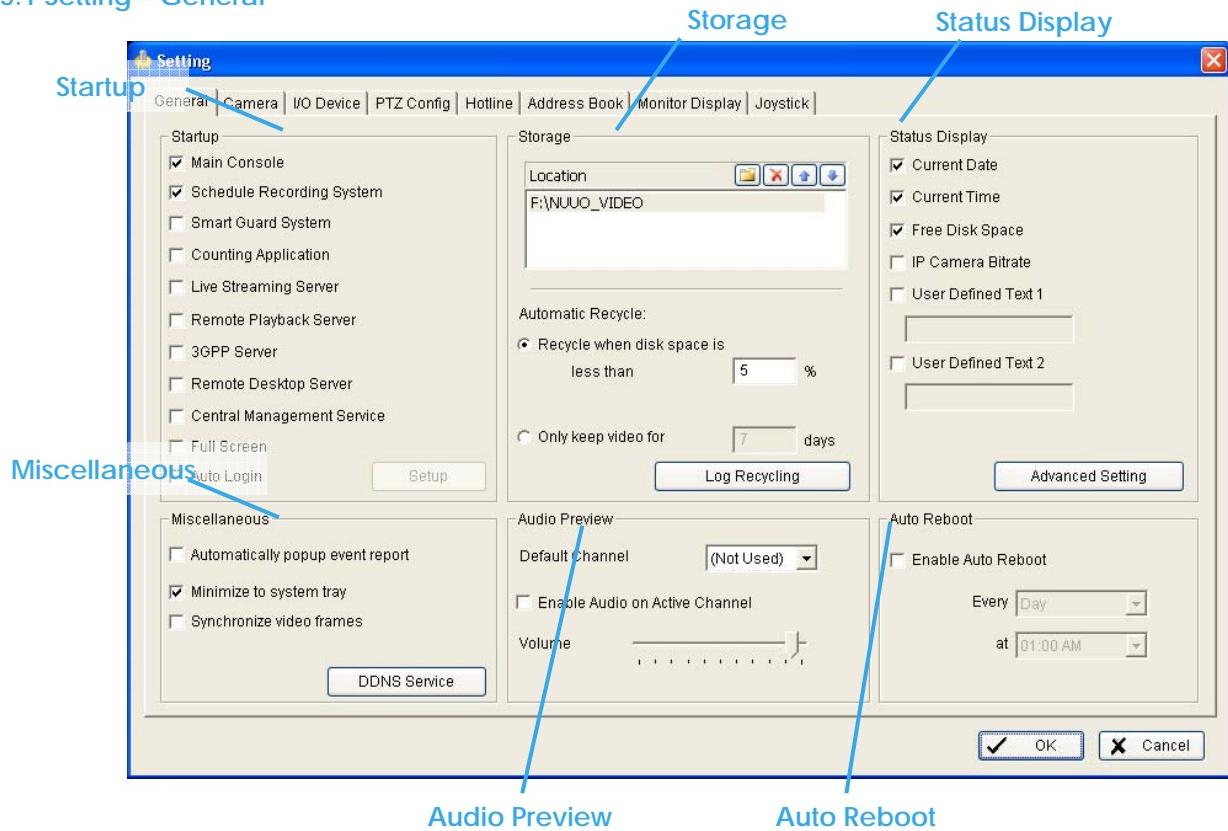
Config

Click on the Config icon, select from the drop-down menu and open the Configuration panel. Modify the setting and access License Manager, Counting application, POS application, Log viewer, Backup, Network Services. Select Save/Load Configuration to save/load all the settings.

* Video Source function available only with MPEG-4 software compression captures devices.



5.1 Setting - General



5.1.1 Startup

Check the MainConsole box to execute Main Console system when windows startup.

Check the following 3 main functions and 5 network services to auto activate functions when Main Console system is executing, including Schedule Recording System, Smart Guard System, Counting Application, Live Streaming Server, Remote Desktop Server, 3GPP Server, Remote Desktop Server and Central Management Service. Checking other options can setup the startup status as Full screen or allow system to auto login with the preset account.

Setup Auto login: Enable “Auto login” and click the Setup button to obtain the Auto Login Setup panel, insert the User Account and Password to login automatically when the system starts. Enable the Minimize after login to minimize the MainConsole window after login.

5.1.2 Storage

Location: Assign the default folder (you can setup several directories for storage) for the system to store all data files. Recommend not to save in system HD (C :\) to avoid PC efficiency drop when free storage is low.

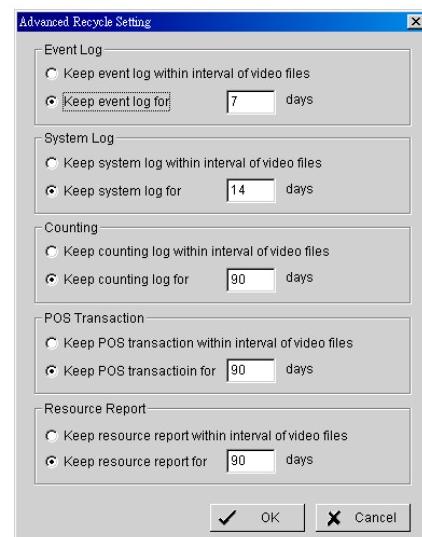
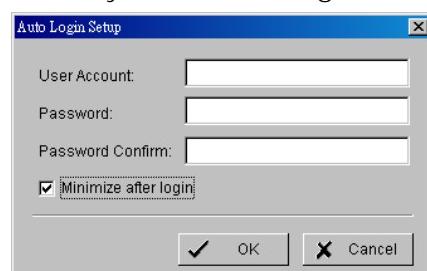
Automatic Recycle: The system will automatically delete out-dated data to save storage space.

- **Recycle when disk space is:** Set the standard limit to let the system recycle automatically.

Less than _ %: The system will start to recycle if the disk space is less than the indicated percentage(default is 10%).

Note:

1. The system will detect the storage space of default location firstly, if the default storage space is exhausted, the video will be stored to the next directory.
2. If all the status of locations exceeds the storage rule, the system will start recycling in an hour progress.



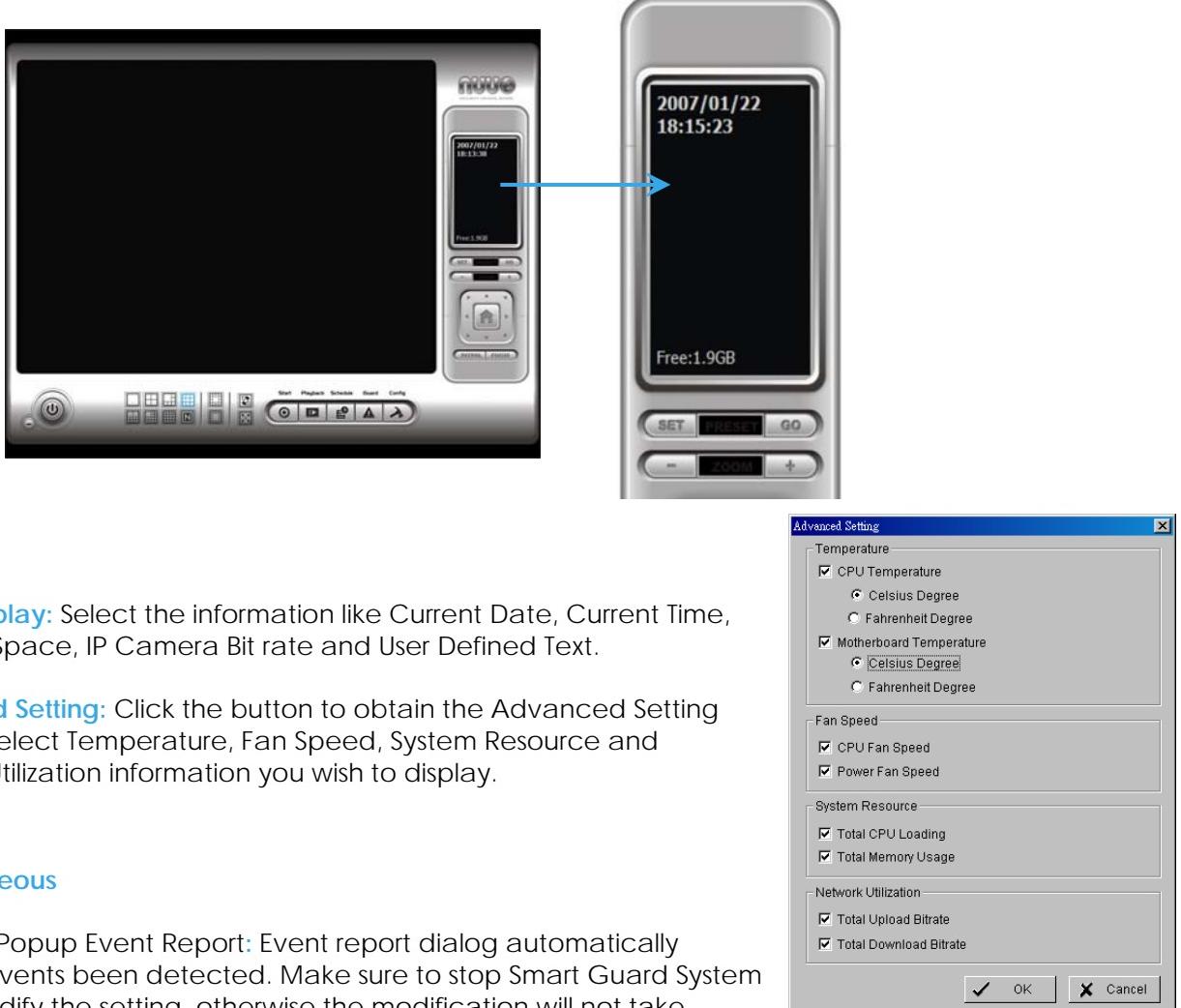
The Intelligent Surveillance Solution

NUUO NVR/DVR/Hybrid NDVR System

- **Only keep video for:** Delete the video records that are older than the number of days set.
Note: If the default storage spaces exhausted (disc space is less than 3%), the system will start to recycle by hourly period.
- **Log Recycling:** Click the button to obtain the Advanced Recycle Setting panel. Set the days that you want to keep the event or Keep all event logs within interval of video files.
Event Log: Delete the event log data that is older than the number of days set.
System Log: Delete the system log data that is older than the number of days set.
Counting: Delete the counting application data that is older than the number of days set.
POS Transaction: Delete the POS transaction data that is older than the number of days set.
Resource Report: Delete the Resource report data that is older than the number of days set.

5.1.3 Status Display

Check the boxes of the information that you wish to see in the information display window in the Main Console.



- **Status Display:** Select the information like Current Date, Current Time, Free Disk Space, IP Camera Bit rate and User Defined Text.
- **Advanced Setting:** Click the button to obtain the Advanced Setting Panel to select Temperature, Fan Speed, System Resource and Network Utilization information you wish to display.

5.1.4 Miscellaneous

Automatically Popup Event Report: Event report dialog automatically popup when events been detected. Make sure to stop Smart Guard System before you modify the setting, otherwise the modification will not take place.

Minimize to system tray: Enable the Option to minimize the Main console to be an icon in notification area of windows task bar when pressing the minimize button.



Note: Insert the username and password of MainConsole again when clicking the minimized MainConsole icon in notification area of windows task bar to start monitoring.

Synchronize video frames: Select it to avoid the tearing problem occurring in video display while increasing the CPU loading.

- DDNS Service:** Dynamic Domain Name Server (DDNS) function allows you to use Live View or Web View to connect to the Main Console through Internet event if you have a dynamic IP address.

Click on the DDNS button to obtain the Dynamic DNS Setup panel. Set up the DDNS function by selecting the provider type, filling with user name, password and hostname, and adjust the update period.



5.1.5 Audio Preview

Default Channel: Select the audio channel that you wish to hear from in "Default Channel".

Enable Audio on Active Channel: Select the "Enable Audio on Active Channel" option to hear the audio from selected video channel (selected by mouse) on each video grid of Main Console. The default channel plays if the video channel isn't selected.

Volume: Adjust the volume with the "volume bar."



System plays the audio of
"default channel"



System plays the audio of left-top
"selected channel"

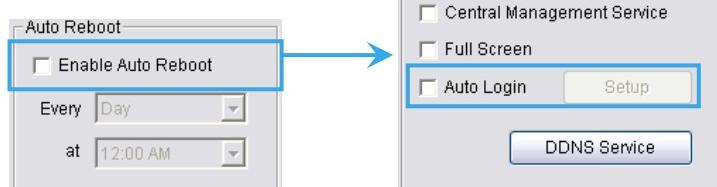
5.1.6 Auto Reboot

Check the option of "Enable Auto Reboot" so that you can reboot the system on the time you select.

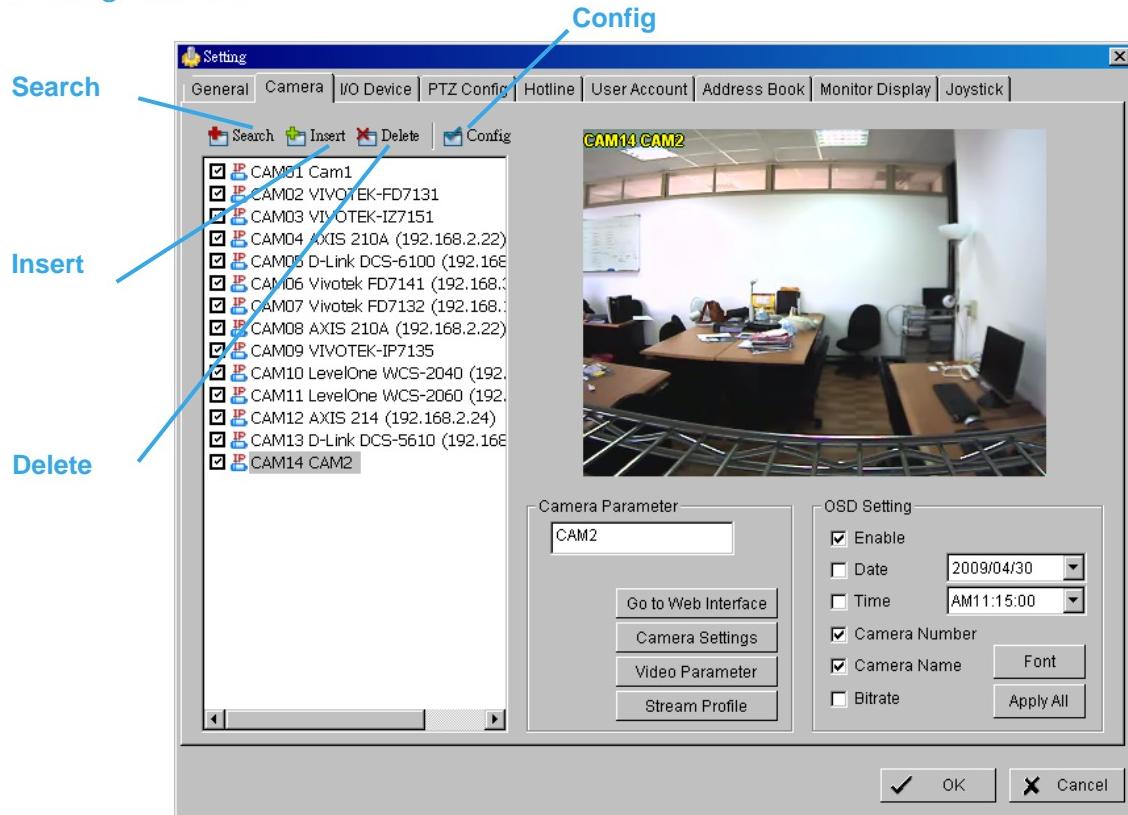
Step 1: Check the option of "Enable Auto Reboot."

Step 2: Select the time you want to reboot.

Note: Enable "Main Console", "Auto Login", "Setup login account" and check other status in Startup section so when PC reboots the system will run normally.



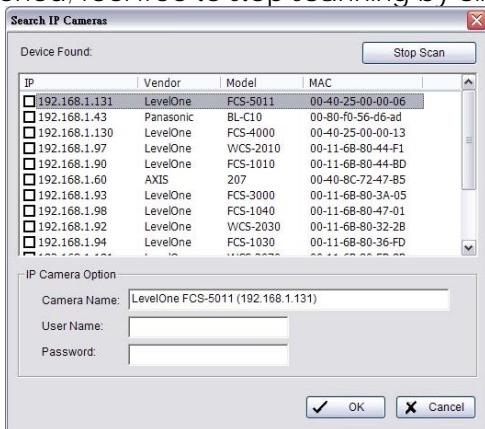
5.2 Setting - Camera



5.2.1 Add Camera

Four function buttons will be included in the Setting/Camera panel if you have our Hybrid Surveillance System license for IP camera.

Search: Click on the Search icon to obtain the Search IP Camera panel. The system will start scanning automatically once the panel is opened; feel free to stop scanning by clicking on the Stop Scan button.



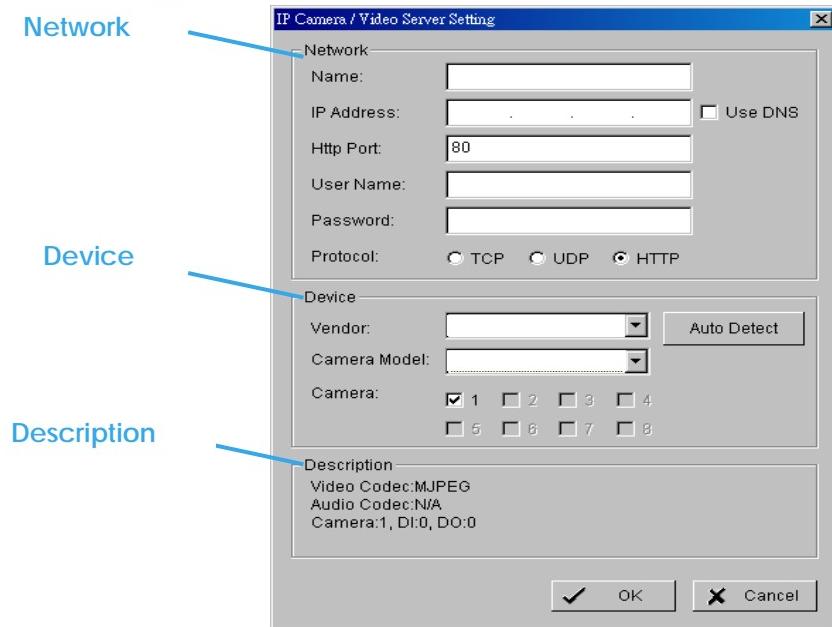
Fill in the user name and password for each IP camera found and click OK to add it to the camera list.

Insert: Click on the Insert icon to obtain the IP/Video Server Setting panel and add IP cameras to the list. See following part (IP Camera/Video Server Setting panel) for detail.

Delete: Click on the Delete button to remove the selected IP camera(s) from the system. Click OK to finalize the modification.

Config: Click on the Config button to obtain the IP/Video Server Setting panel. You can modify the IP camera settings with the Setting panel. See following part (IP Camera / Video Server Setting panel) for detail.

5.2.2 IP Camera / Video Server Setting panel

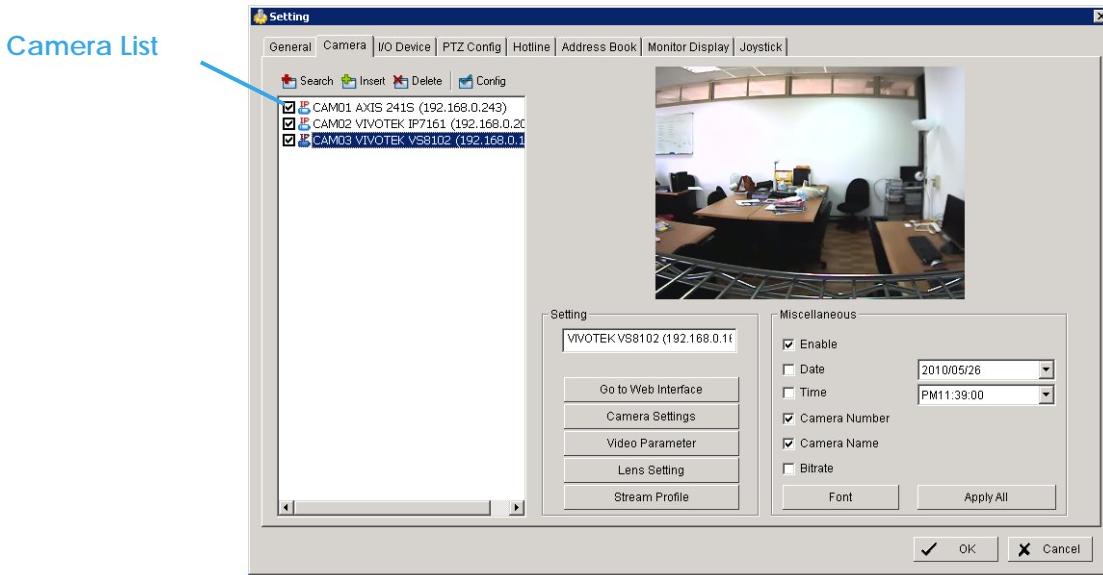


Network: Fill up the Network field (including Name, IP Address, Http Port, User Name, Password and Protocol) referring to the instruction provided by the camera manufacturer. Check “Use DNS” to use domain name instead of IP address.

Device: Choose the IP camera manufacturer from the drop-down menu. Click on “Auto Detect” and the model name will show in the box.

Description: Shows information for the IP camera.

5.2.3 Camera Parameter



Camera List: The camera(s) connected to the system will show on the panel, click the name of the camera to adjust the setting.

Camera Parameter:

Camera Name: Name the camera for your convenience.

Go to Web Interface: Go to Website interface to configure the camera setting (optional).

Camera Settings: Set the camera parameter offered by camera vendor.

Video Parameter: Adjusts the video's brightness, contrast, saturation, and color hue values.

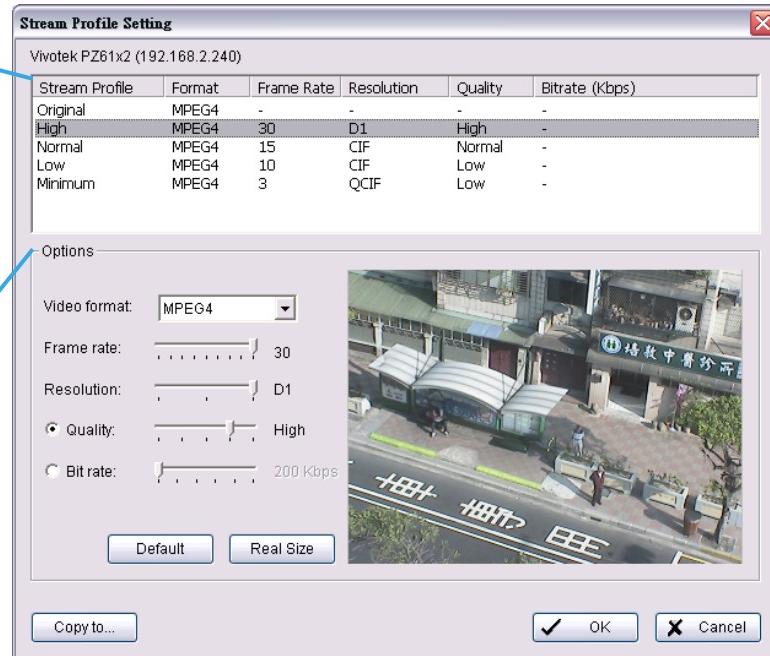
Lens Setting: ImmerVision Lens is supported currently. Click to enable ImmerVision Lens or setup the option of lens, such like camera position.

Stream Profile: Stream profiles are pre-defined to preferred settings which will respond from the query

of the remote live view function. Each profile has different Format, Frame, Resolution, Quality and Bit rate (Kbps) settings.

Stream Profile

Options



Note:

The types of stream profile and options will different with stream sources.

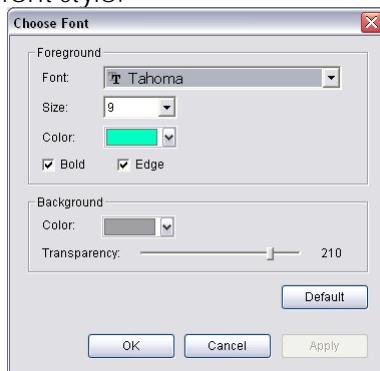
- IP camera:
5 profiles with Original (only can drop frame rate), High, Normal, Low and Minimum (for PDA/Smart Phone Client).
- Analog camera with SCB-1000-4000s:
4 profiles with High, Normal, Low and Minimum (for PDA/Smart Phone Client).
- Analog camera with SCB-5000s:
3 profiles with Normal (H.264 format only), Low and Minimum (for PDA/Smart Phone Client).
- Analog camera with SCB-7000s:
4 profiles with H.264 (H.264 format only), High, Normal, Low and Minimum (for PDA/Smart Phone Client).

Note:

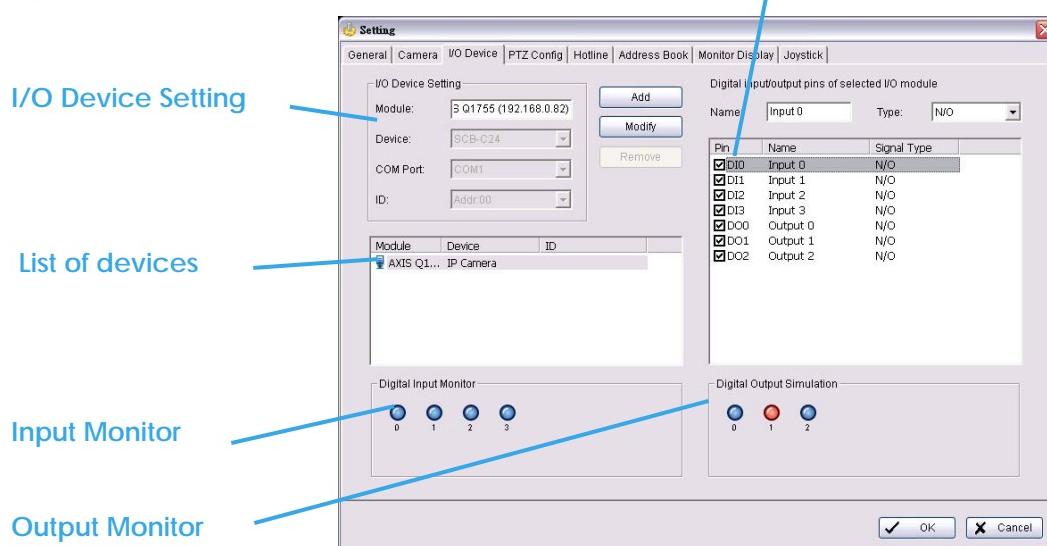
1. Use Copy to option could apply the setting of a single camera to all the others.
2. To choose stream profile of remote live view, see Live view setting at page 96 for detail.

5.2.4 OSD Setting

Select the information that you wish to see in the on-screen display, or the sub-screen of the camera. And then, click the Font button to setup the font style.



5.3 Setting - I/O Device



I/O Device Setting:

- Module Setting:** Name the module device and ID that has been connecting the digital input/output device(s) to your system.
- Device:** This column displays the device(s) already installed to the system.
- ID:** Select the number of the I/O port to which you plug the ribbon cable.

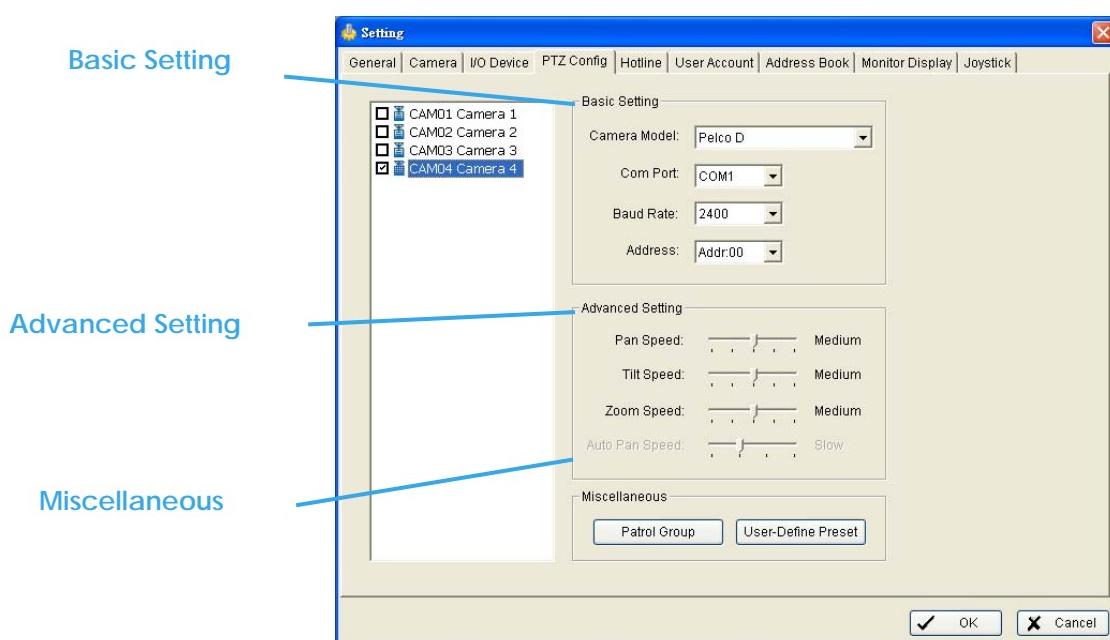
Input Monitor: The device(s) is turned on if the dot is red. By triggering the digital input device, the related icon will light up. This is used to check that the device is correctly connected.

Output Monitor: The device(s) is turned on if the dot is in red. By clicking on the icon, you may trigger the digital device connecting to the system. This can be used to test if the output device is correctly connected.

Device Setting

- Name:** Insert the name of the device (input and output).
- Type:** Select the device type from the drop-down menu.
 1. N/O: Normal Open.
 2. N/C: Normal Close.

5.4 Setting - PTZ Config



Install PTZ cameras and follow the instructions of the camera manufacturer. A PTZ camera is usually connected to the PC with RS-485/RS-422.

Check the box on the camera list to activate the PTZ control function of a PTZ camera.

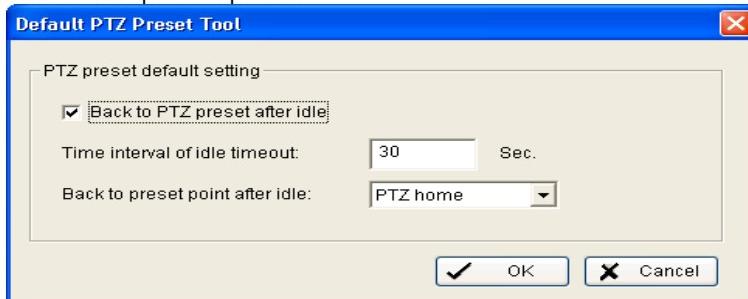
Basic Setting: Select the camera model, com port, baud rate, and address according to your PTZ camera.

Note: If the camera model is IP PTZ camera, you can work PTZ function directly without the com port, baud rate, and address settings.

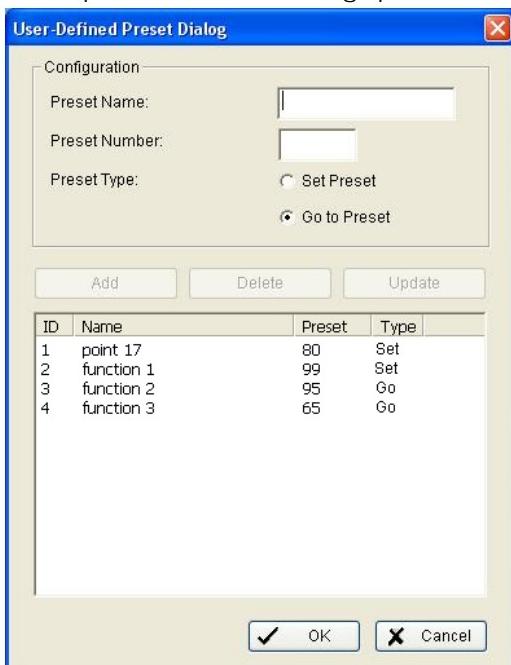
Advanced Setting: You may setup the pan speed, tilt speed, zoom speed and auto pan speed. Adjust the settings by dragging the bars.

Miscellaneous:

- **Patrol Group:** You can setup the Patrol Group, please see page 25 for detail.
- **Default PTZ Preset:** Enable this function, the PTZ camera would auto back to the preset point if no users control PTZ function via MainConsole System. To enable option, simple check Back to PTZ preset after idle and setup idle period and preset point.



- **User-Define Preset:** User-Define Preset for the analog speed dome can trigger the extra-function of the speed dome itself such as auto-tracking, login menu of camera...etc. You can refer the detail description of each analog speed dome on its user manual.



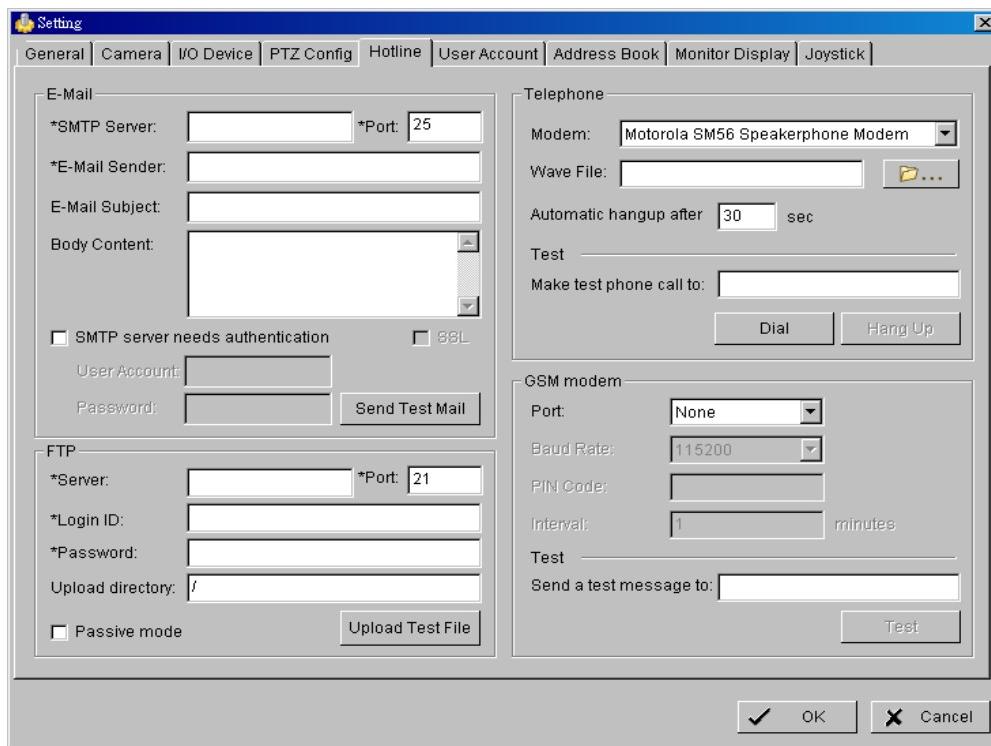
Step 1: Type the Preset Name.

Step 2: Type the Preset Number.

Step 3: Select the Preset Type.

Step 4: Pressure the buttons to Add, Delete, or Update preset setup.

5.5 Setting – Hotline



Configure the settings of hotlines, including E-mail, FTP, GSM modem and Telephone calls, once an unusual event is detected.

E-mail: Input the following information: Server, Port, and Sender's E-mail address, E-mail's subject title, Body content and SSL option for encrypted transmission. Click on the Send Test Mail button to test the settings.

Note: * indicates mandatory areas

FTP: Input the following information: server, Port, Login ID, Password, and Upload directory, according to your FTP type to enable/disable Passive mode. You may click on the Upload Test File button to test the settings.

Note: * indicates mandatory areas

Telephone: Select the modem that the system is going to dial the info call with, and then insert the phone number you want to dial to. (A modem is required for voice transition.)

Note: 1. You must use a modem with voice capability.

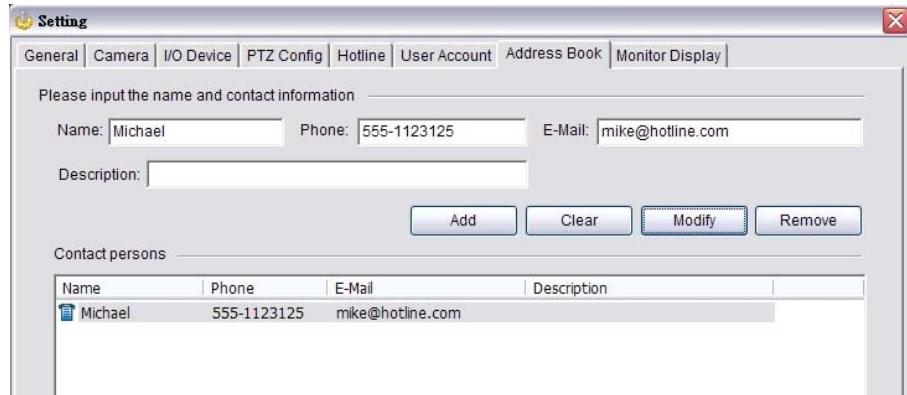
2. You may select a Wave format file; it will be played in the phone to alarm the person who picks up the phone call.

GSM modem: Set the Port and Baud Rate of the GSM modem device, and then enter PIN code. You can setup the interval of send SMS message. You may click on Test to send test SMS message.

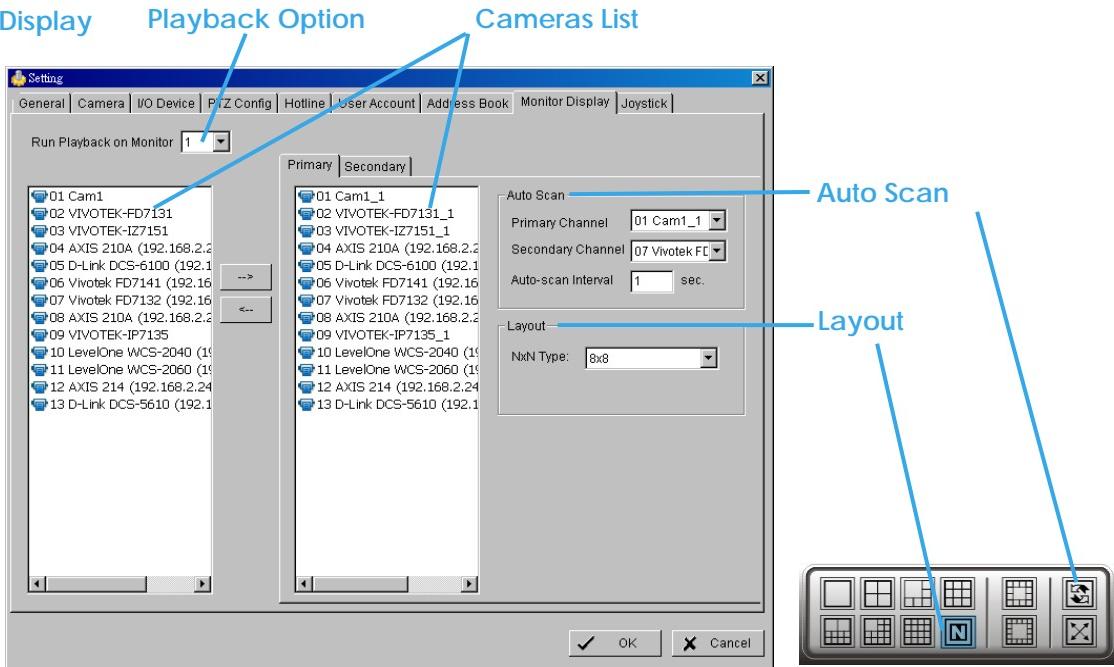
Note: The interval is set to restrict the period of two SMS. If you set as 60 min, the SMS between 60 min would be deleted and didn't send to user.

5.6 Setting - Address Book

Manage the address book from which you may send out a phone call or an E-mail when an unusual event is detected.



5.7 Setting – Monitor Display



Playback Option: Execute Playback on the secondary monitor by checking the box. Make sure to adjust the display setting of your computer in advance to avoid system error.

Cameras List: The left side displays a list of all cameras; modify the cameras shown on primary/secondary monitor in the right window.

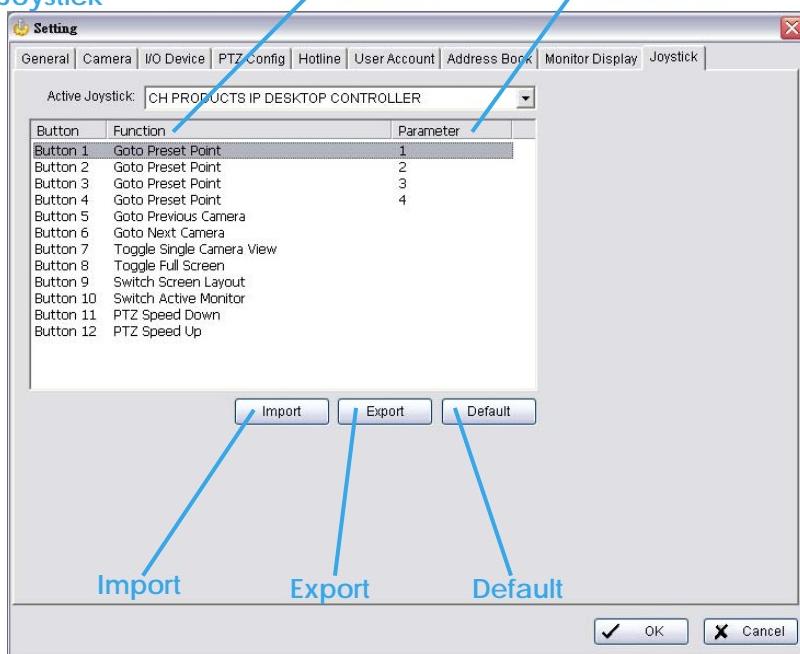
Auto Scan: Activate auto scan to rotate the channels/ cameras on the display screen.

For instance, you may select to show only 4 sub-screens on the main console while having 16 channels connected to the system. With auto scan function, you will be able to see all 16 channels by turns. You can set up a primary channel that will always be on the screen and a secondary channel that has secondary priority.

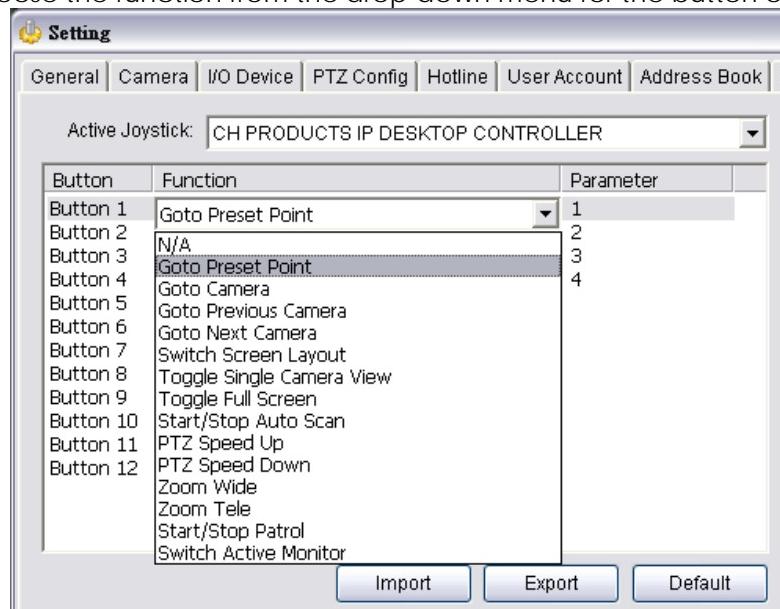
Layout: Choose the number of divisions for NxN division on the Main Console screen.

Note: For SCB-5000 H.264 Hardware compression system, only network cameras (IP Channels) can be shown on the secondary monitor.

5.8 Setting - Joystick



Function: You can choose the function from the drop-down menu for the button of the joystick.



Note: Following is a complete list of all log types:

- | | |
|------------------------------|---------------------------|
| 1. N/A | 9. Start/Stop Auto Scan |
| 2. Goto Preset Point | 10. PTZ Speed Up |
| 3. Goto Camera | 11. PTZ Speed Down |
| 4. Goto Previous Camera | 12. Zoom Wide |
| 5. Goto Next Camera | 13. Zoom Tele |
| 6. Switch Screen Layout | 14. Start/Stop Patrol |
| 7. Toggle Single Camera View | 15. Switch Active Monitor |
| 8. Toggle Full Screen | |

Parameter: You can choose the parameter of the function from the drop-down menu.

Default: You can set the default setting for the joystick.

Export: You can export the setting of the joystick.

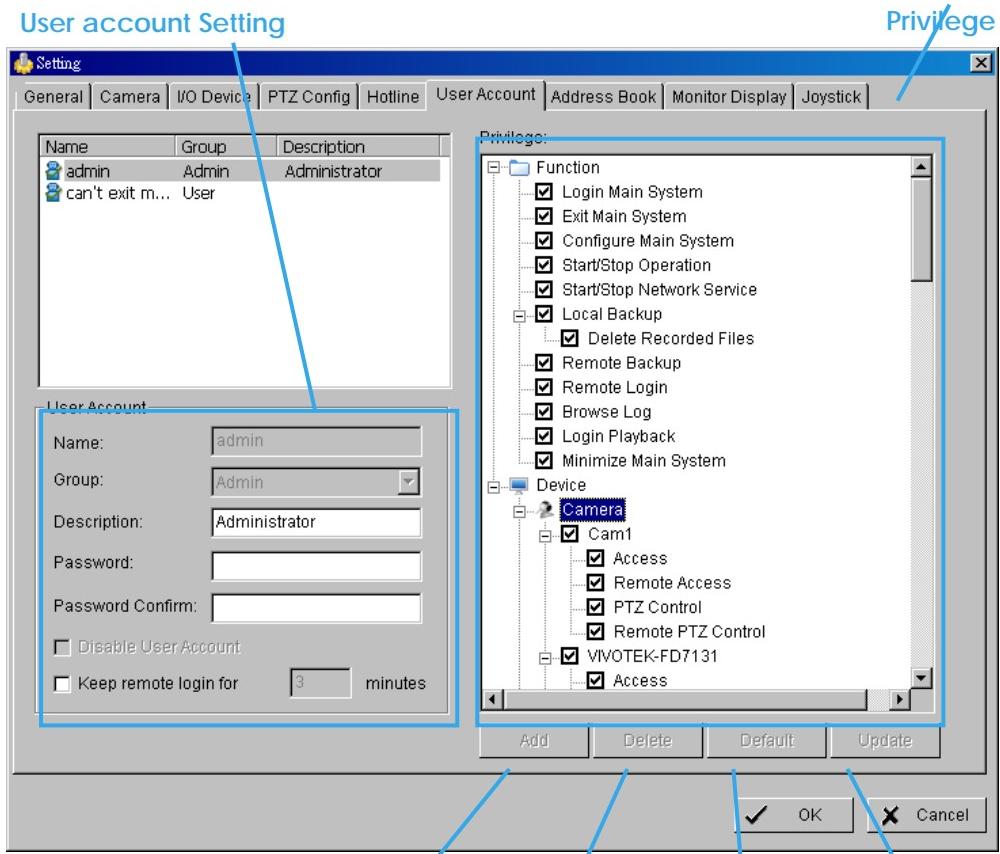
Import: You can import the setting of the joystick.

5.9 User Account Setting

Only default admin account could manage the user accounts here. From the list on this tab, highlight each account and modify the privilege setting.

There are 3 default privilege profiles of account groups:

- **Admin:** Have privileges of all system functions and devices, except add/delete/update privileges of other users.
- **Power User:** Have limited privileges of system functions and complete privileges of assigned devices.
- **User:** All the privileges of system functions are forbidden, user could only manage assigned devices.



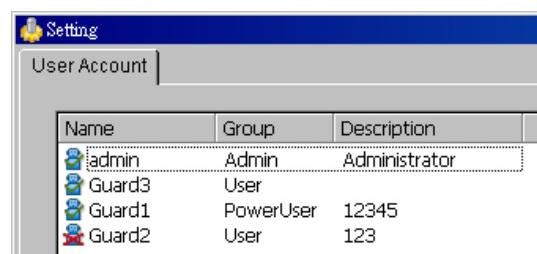
- **Add:** Click it to create a new account after inserting related information.
Note: The "Add" button is only enabled when adding a new account.
- **Delete:** Click it to delete the indicated account.
- **Default:** Click it to go back to default privilege settings of related user group.
- **Upgrade:** Click it to save the modifications of each account.

User Account Setting: The admin may create and modify the content of user account here.

- **Name:** Insert the user name.
- **Group:** Assign the group for each user.
- **Description:** Insert the description related to each user.
- **Password:** Insert the password assigned to each user.
- **Password confirm:** Insert again to confirm the password.
- **Disable User Account:** Check the "Disable User Account" will block this account to access system. The signal "🚫" will appear after disabling the account.

Note: Only the default admin account couldn't be disabled.

- **Keep remote login for__minutes:** Insert the duration to auto kick out account after logging in from remote LiveViewer or Remote Playback server.



Privilege: Check each privilege of functions and devices for each user account.

- **Function:** Check the settings, operation related and system configuration, and the privilege of remote access.
- **Device:** Check the device privileges of camera, digital output and POS in MainConsole and client applications.

Note: The privilege of default admin account couldn't be edited.

5.10 License Manager

The license of the software should be registered first before operating the former version of Intelligent Surveillance System.

Execute the License Management Tool in Config >License Manager to activate the license from dongle or serial number allocated with the software package, or de-activate the license then bring it to another PC to activate it again.

Note: Please refer page 110 for the detail setting of License Management tool.



5.11 Save/ Load Configuration

The Save/ Load Configuration function allows system users to save any specific setting as a CFG (config) file. You may save several different CFG files at a time.

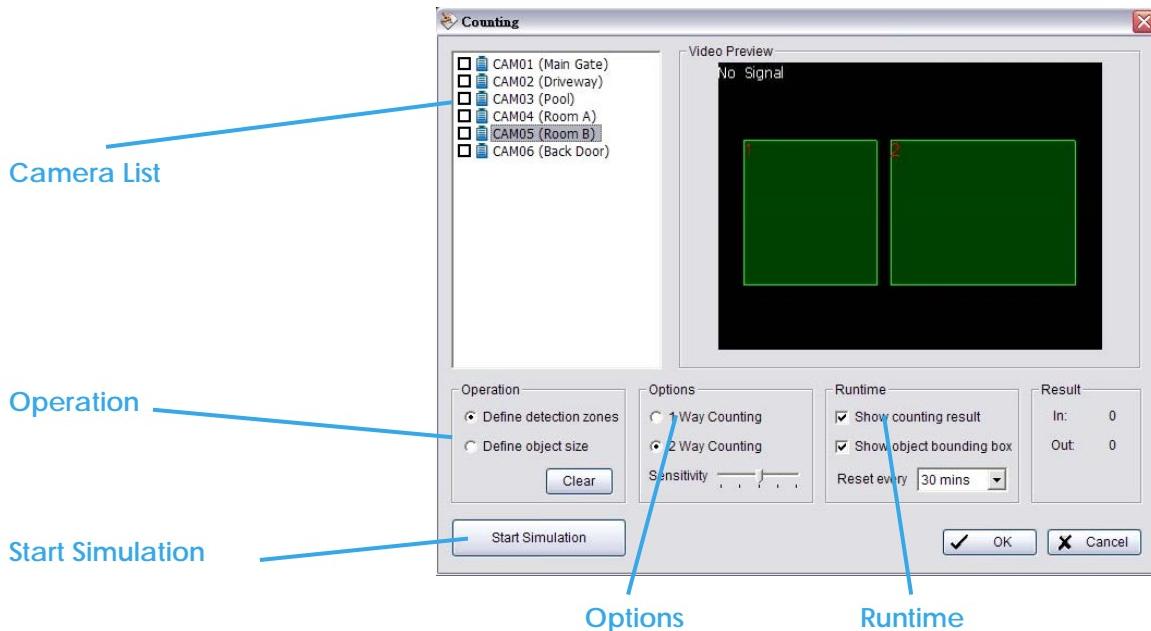
Save Configuration: To save a specific setting, go to Config - Save/Load Configuration - Save. In the popup window, type in the file name and then save it as a CFG file.

Load Configuration: To load a specific setting, go to Config - Save/ Load Configuration - Load. In the popup window, go to the directory that you saved the CFG files at, select any one of them and then click OK to load the file.

Note: MainConsole will be automatically shut down after loading a new configuration. Re-start MainConsole manually.

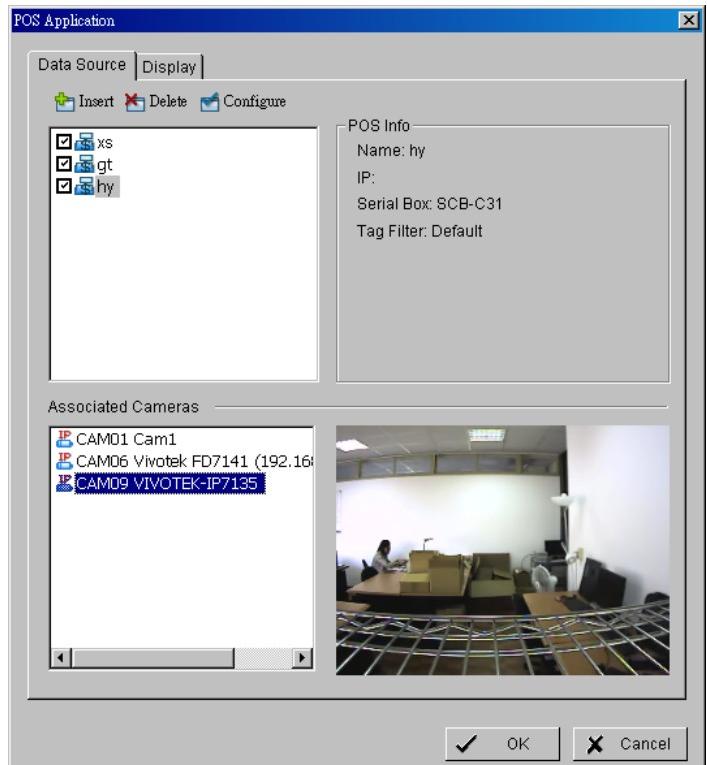


5.12 Counting Application



5.13 POS Application

Each NUUO Main Console system can manage up to 64 POS cash register devices. The POS Application tool is helpful to configuration POS devices. Refer to the User manual for detail.



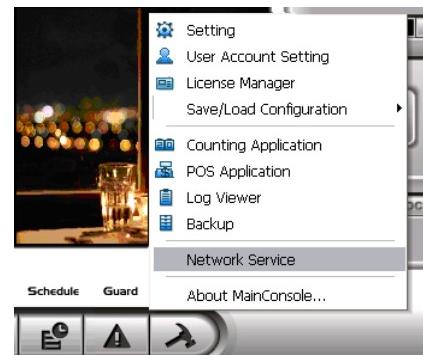
5.14 Network Service

There are 5 types of network services:

Live streaming server, Remote playback server, 3GPP service, Remote Desktop, and Central Management Service. From the Main Console, go to Config - Network Service to obtain the Network Service panel.

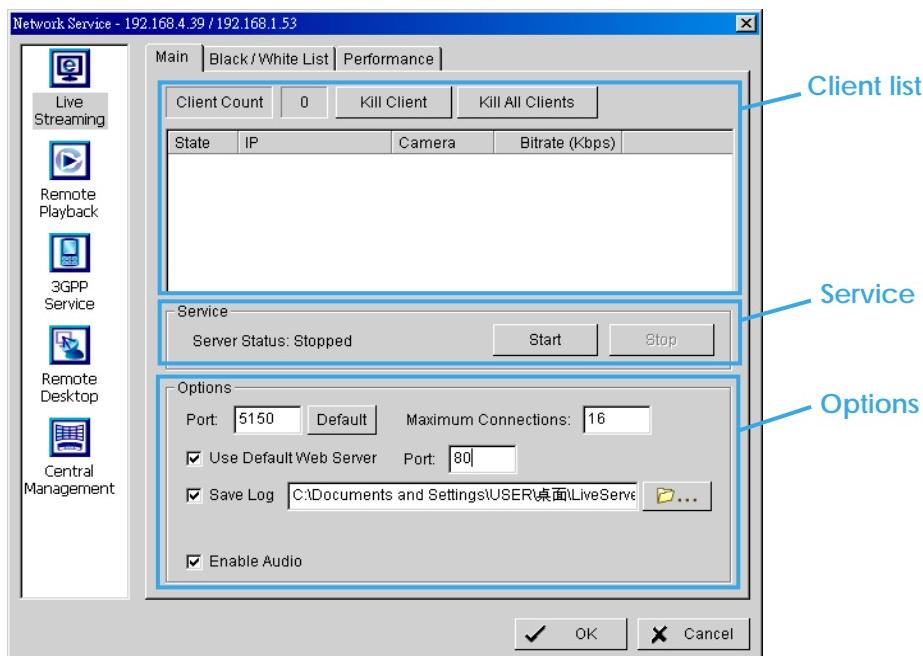
5.14.1 Live Streaming Server

When starting the live streaming function of computer, the system allows remote users to log in to the specific computer and view cameras that are connected to it. As system administrator, user could be able to monitor these accounts in order to maintain the system efficiency.



Main

On Live Streaming Server panel, administrator can see all the clients who are currently logging in to the computer and watching the live video from the remote side.



Client list:

- Client Count:** Show the amount of channels that are connecting to system.
- Kill Client:** Highlight an IP address and click on the "Kill Client" button to block the client from your client list.
- Kill All Clients:** Click on this button and all clients are blocked from logging into your system.

Service:

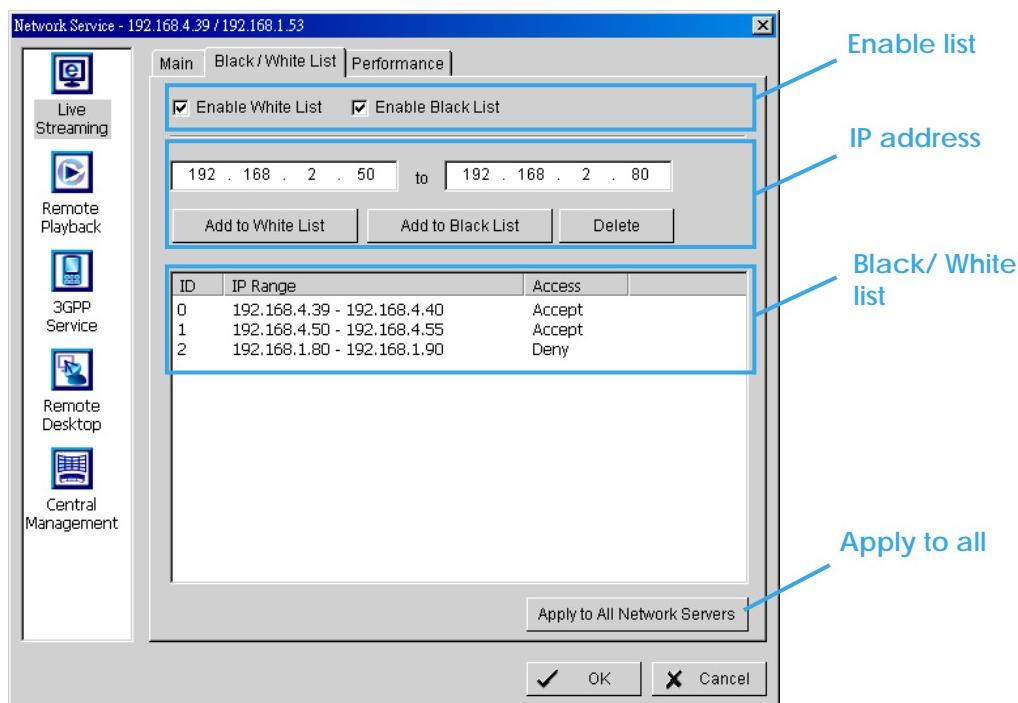
- Server Status:** Click on Start/Stop to turn on/off this option.

Options:

Adjust the setting only when the server is stopped.

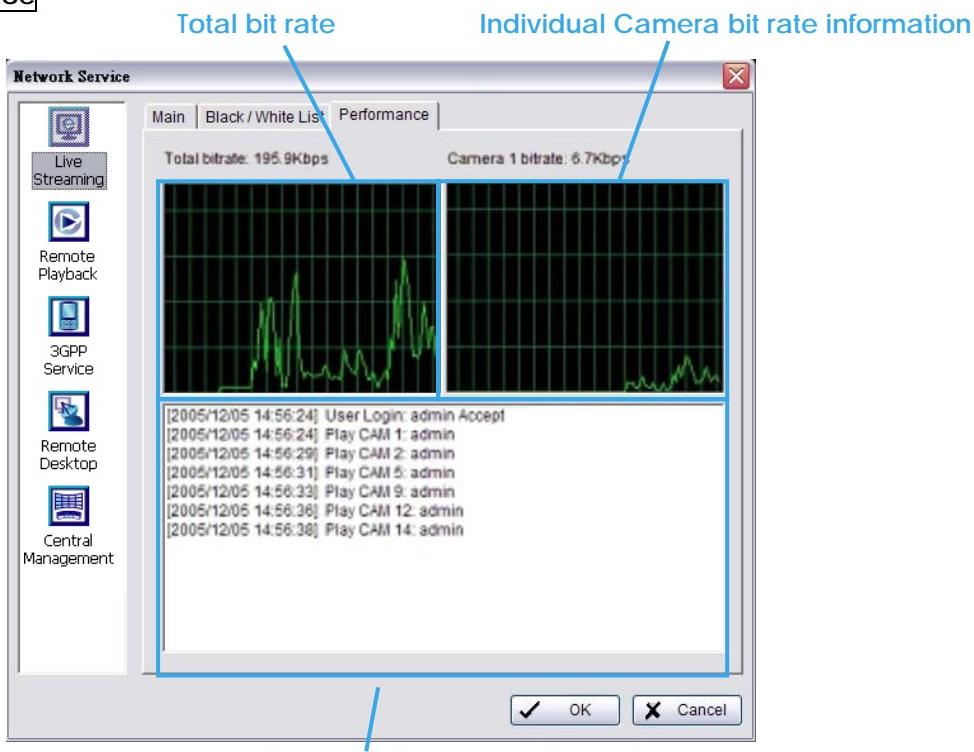
- Port:** Assign a port for the clients to connect to your system via Remote Live Viewer. Default port is 5150.
- Maximum Connections:** Number of connections that are allowed to connect to the system. Default is 16 channels and maximum is 128, one camera video counts as one connection.
- Use Default Web Server:** Activate the Web server by checking the box; clients will be able to watch live video via Internet Explorer. The port for live streaming server is set to 80 by default.
Note: This must be checked in order to access system via IE*.
- Save Log:** Save the log information at appointed folder.
- Enable Audio:** Select this option to enable the audio transmission along with video stream.

Black / White List



- White List:** Check the "Enable White List" box to activate the white list filter. Only IP from the white list is allowed to log in.
- Black List:** Check the "Enable Black List" box to activate the black list filter. IP from the black list will be blocked.
- IP Address:** Enter an IP address into the IP address field on the left. To add an IP address range to the system, enter 2 sets of IP address to indicate a series of IP(s).
- Add/Delete:** Add the IP(s) onto the list or remove it from the list.
- Apply to All Network Servers:** Apply the settings to both the live streaming server and the remote playback server.

Performance

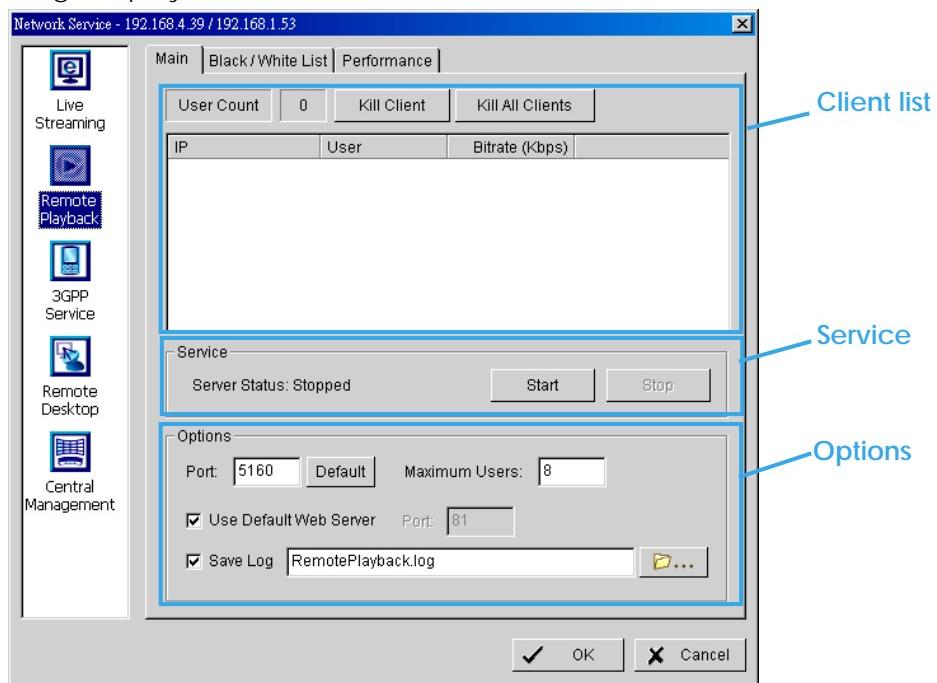


5.14.2 Remote Playback Server

When starting the remote playback function, the system allows remote users to log in to the specific computer and withdraw data files that are stored on it. As system administrator, user could be able to monitor the accounts logging in to maintain the system efficiency.

Main

On Remote Playback Server panel, administrator can see all the clients who are currently logging in to the computer and watching the playback video from the remote side.



Client list:

- **User Count:** Show the number of users that are connecting to system.
- **Kill Client:** Highlight an IP address and click on the "Kill Client" button to block the client from your client list.
- **Kill All Clients:** Click on this button and then block all the clients logging to your system.

Service:

- **Server Status:** Click on Start/Stop to turn on/off this option.

Options:

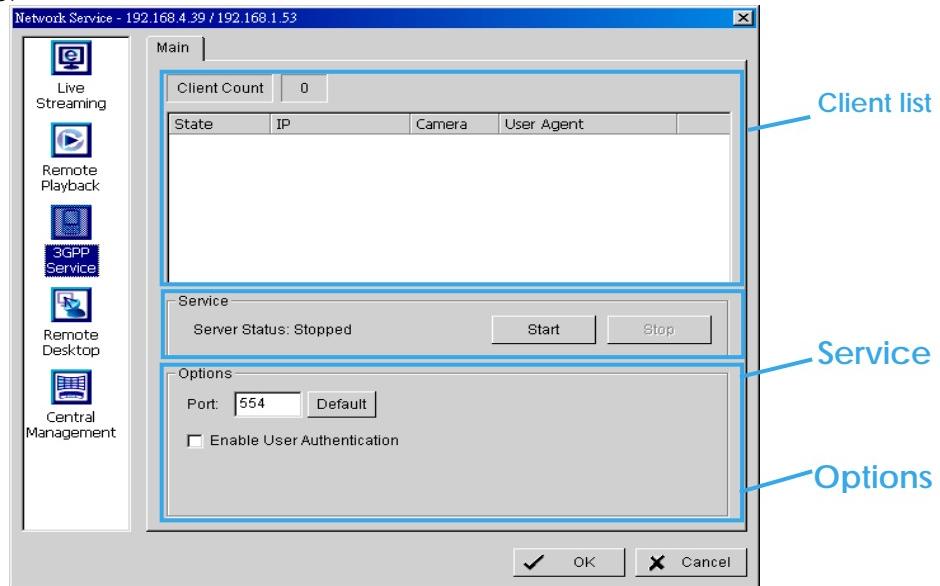
Adjust the setting only when the server is stopped.

- **Port:** Assign a port for the clients to connect to your system via Remote playback server. Default port is 5160.
- **Maximum Users:** Number of connections that are allowed to connect to the system. Default is 8 users and maximum is 64.
Note: One user counts as one account that is logging in to the server.
- **Use Default Web Server:** Activate the Web server by checking the box; clients will be able to watch live video via Internet Explorer. The port for live streaming server is set to 80 by default.
Note: Must check this item for system access via IE*.
- **Save Log:** Save the log information at appointed folder.

Black / White List and **Performance** - Please refer Live Streaming Server section

5.14.3 3GPP Service

When starting the 3GPP service function of your computer, the system allows remote users to log in and view cameras that are connecting to it with 3GPP supported mobile phone. See Appendix A for more details about 3GPP Service.



Client list:

- **Client Count:** Show the number of channels that are connected to system.

Service:

- **Server Status:** Click on Start/Stop to turn on/off this option.

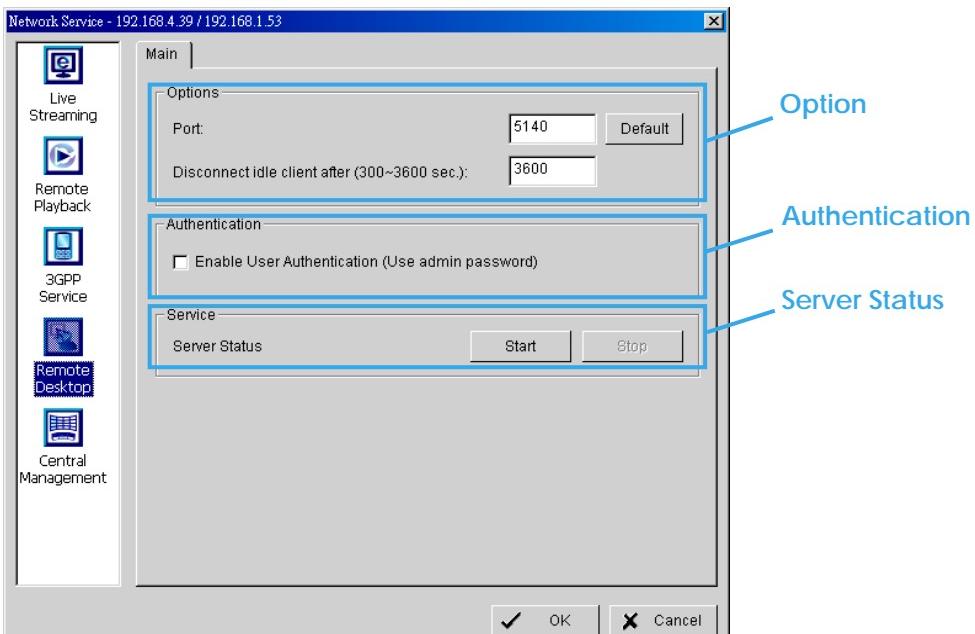
Options:

Adjust the setting only when the server is stopped.

- **Port:** Assign a port for the clients to connect to your system via 3GPP Service. Default port is 554.
- **Enable User Authentication:** User need to insert the username and password to login to the 3GPP server and view the video stream.

5.14.4 Remote Desktop

When starting the Remote Desktop, the system allows remote users to use NUUO Remote Desktop Tool to login and configure system. See Appendix B to install and use this tool.



Options:

- **Port:** Assign a port for NUUO Desktop tool to login and configure system.
- **Disconnect idle client after (300~3600 sec):** Auto disconnect the on-line user who idled more than set period.

Authentication:

Enabling this option would only allow admin account to use NUUO Desktop tool to login system.

Service:

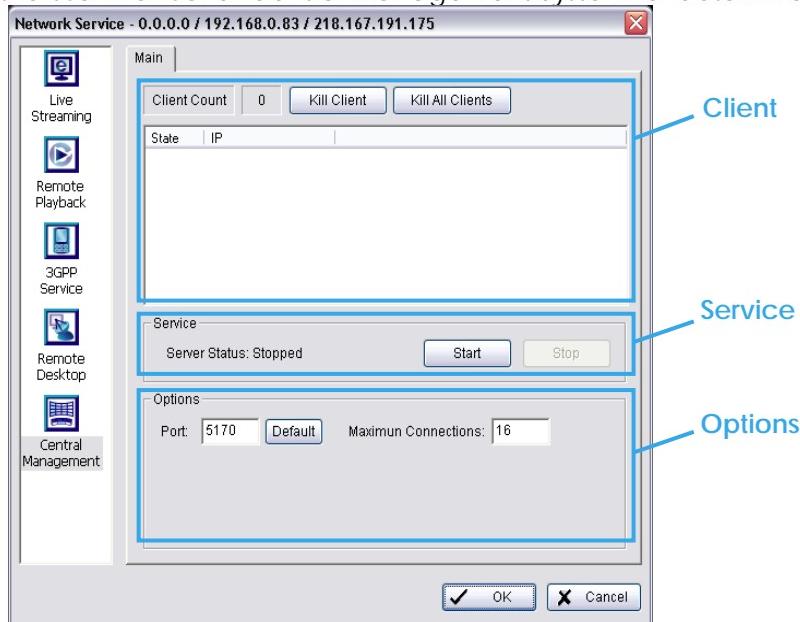
- **Server Status:** Click on Start/Stop to turn on/off this option.

5.14.5 Central Management Service

This service only supports NUUO Central Management System (NCS). When starting the Central Management Service option of the system, the Main Console would send event information to NCS and allow NCS system to control I/O device from remote side.

Note:

1. To enable this action, go Guard >Action and select "Send to Central Server" to enable the action triggered by preference event.
2. Please refer the user manual of Central Management System for detail information.



Client list:

- **Client Count:** Show the amount of NCS Servers that are connecting to system.
- **Kill Client:** Highlight an IP address and click on the "Kill Client" button to block the client from your client list.
- **Kill All Clients:** Click on this button and then block all the clients logging to your system.

Service:

- **Server Status:** Click on Start/Stop to turn on/off this option.

Options:

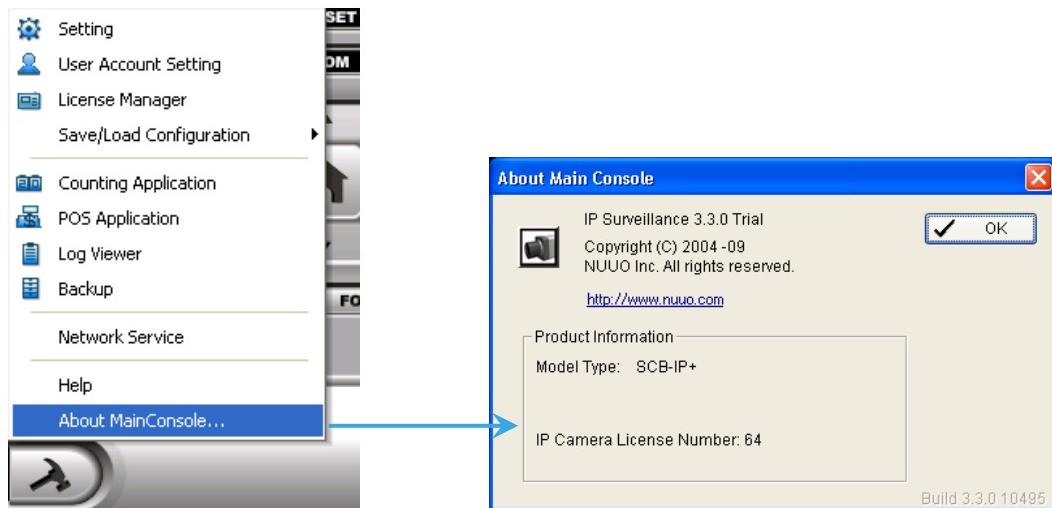
- Adjust the setting only when the server is stopped.
- **Port:** Assign a port for NCS System to connect Main Console system. Default port is 5170.
 - Number of connections from NCS Servers that are allowed to connect to the system. The default is 8 NCS Servers and maximum is 16.

5.15 Help

Click Help to connect to FAQ of NUUO website http://support.nuuo.com/mediawiki/index.php/Main_Page.

5.16 About Main Console

Go to About Main Console to view the version of your surveillance system and the hardware information.



5.17 Video Source

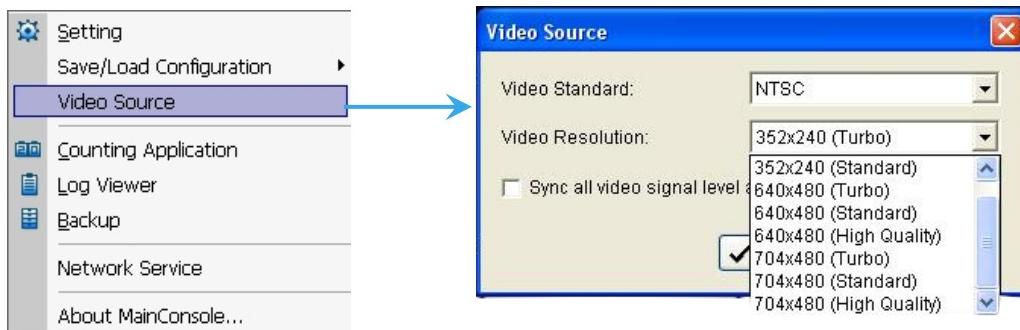
(For system with MPEG4 capture device only)

Step 1: Go to Video Source to adjust the Video Standard to NTSC or PAL.

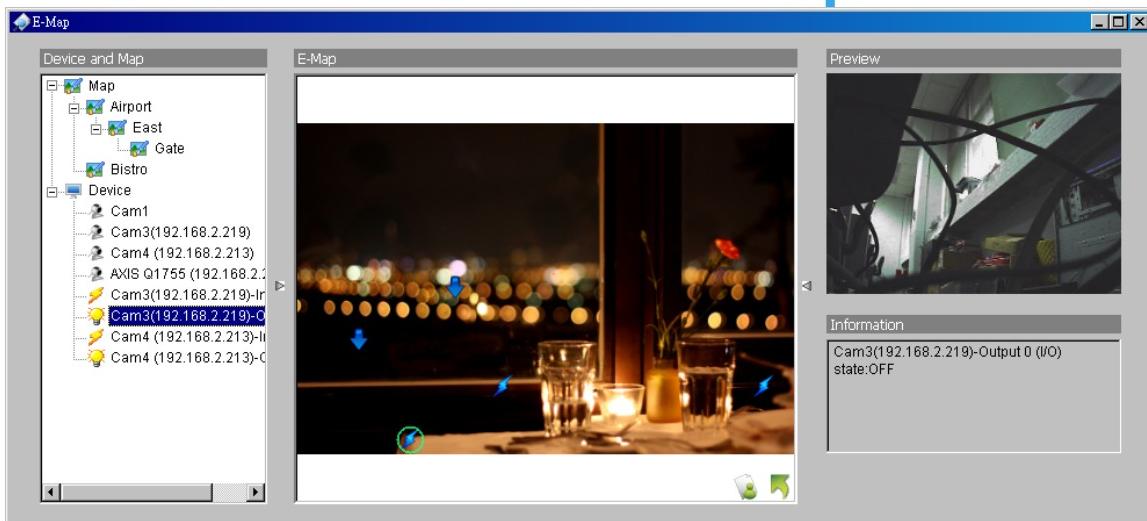
Step 2: Adjust the maximum Video Resolution for all analog cameras.

Video Resolution	Frame Rate	Quality
Turbo mode	Higher	Lower
Standard mode	Normal	Normal
High Quality mode	Lower	Higher

Step 3: Click Sync all video signal level after pressing OK to synchronize video signal level to the optimized display (Auto-gain control).



6. E-Map



With E-Map, user can find out or track the actual location and alarm status easily and receive instant response when the event happens.

The arrows and lightening icon on E-Map represent cameras and I/O devices and these icons will turn red once they are triggered by alarms.

To launch E-Map application, simply click on Start and select Open E-Map from start menu to open E-Map window.

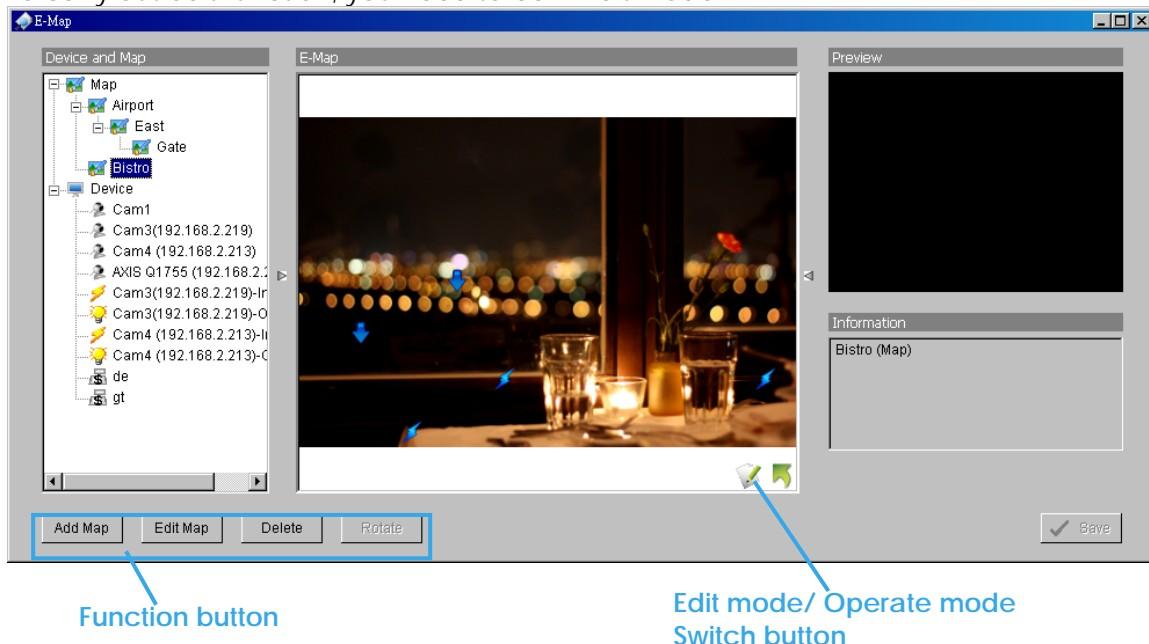
There are 2 modes in E-Map application:

 **Edit mode:** Allow users to add/edit maps and indicators of devices. In Edit mode, the function buttons on the bottom of the window will be active, and then setup the configuration before running E-map function at the first time.

 **Operate mode:** all settings will be activated in this mode.

6.1 Edit Mode

To carry out edit function, you need to be in Edit mode.

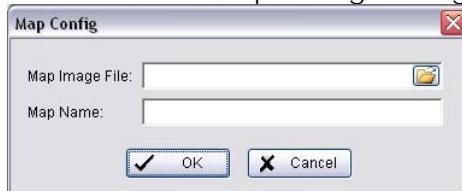


6.1.1 Add/Edit/Delete Map

Add E-Map:

Step 1: Make sure being in "Edit Mode" and all devices are connected and inserted.

Step 2: Right click on the Map icon in device and map list to obtain the option menu to add map, or just click "Add Map" button to obtain the "Map Config" dialog.



Step 3: Select the map file and insert the map name. Click OK, and then the map you added appears in the tree structure of device and map list.

Step 4: The map indicator appears on the left-up corner of parent map. Drag it to the position you want on appointed map.

Edit E-Map:

Step 1: Make sure you are in Edit mode and all devices are connected and inserted.

Step 2: Right click on the "Map" icon to obtain the option menu to edit map, or just click "Edit Map" button to obtain the "Map Config" dialog.

Step 3: Modify the required details, and then click OK to save configuration.

Delete E-Map:

Step 1: Make sure being in Edit mode and all devices are connected and inserted.

Step 2: Right click on the "Map" icon to obtain the option menu to delete map, or just click Delete button to remove appointed map from list.

Note: The root map can't be deleted.

6.1.2 Add/Rotate/Delete Device Indicator

Add Indicator:

Step 1: Make sure being in Edit mode and all devices are connected and inserted.

Step 2: Select on the icon “ Map” which you want add device indicator to.

Step 3: Before adding indicator, ensure that the map you want is displayed. Select device from list and directly drag a device to the desired location on the map.

Note: Different device is symbolized by different indicator.

- Camera indicator, - digital Input indicator, - POS indicator.

Rotate Indicator:

Step 1: Ensure being in Edit mode and all devices are inserted. Select device indicator from map or form

Device and Map list. The device indicator will be marked with a green ring .

Step 2: Click Rotate button, the indicator will rotate 45 degree.

Note: Only camera indicators are allowed to be rotated.

Delete Indicator:

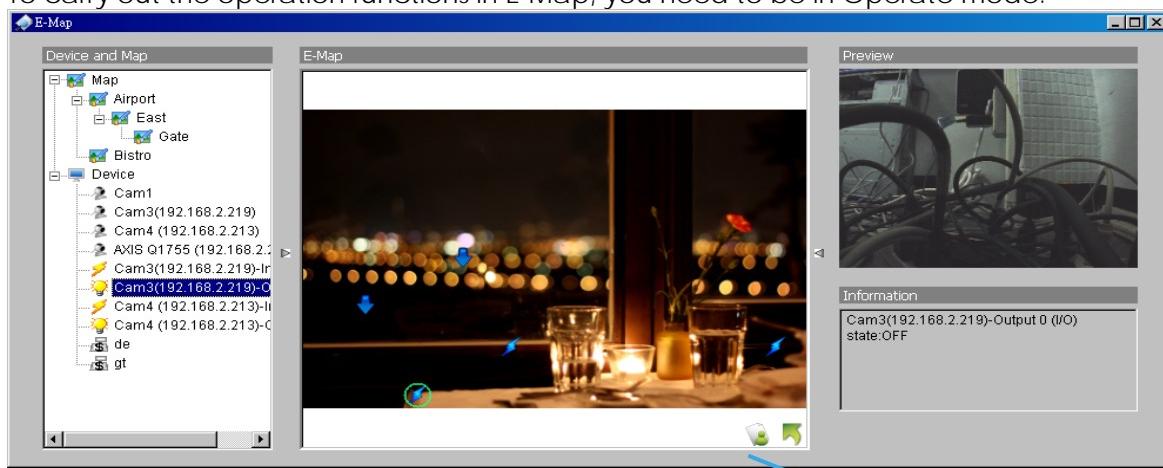
Step 1: Ensure being in Edit mode and all devices are inserted. Select device indicator from map or from

Device and Map list. The device indicator will be marked with a green ring .

Step 2: Click Delete button, the indicator will be gone.

6.2 Operate Mode

To carry out the operation functions in E-Map, you need to be in Operate mode.



Operate mode/ Edit mode
Switch button

6.2.1 Device and Map Tree list

This window will list all devices and map hierarchies; click device or map indicator to show related information on E-Map windows.

- Map** – Select the map you want to show on E-Map Window.
- Camera** – Select the camera you want to preview video on preview window and mark indicator on E-map.
- Digital Input** – Select it to highlight the device with green ring on map and show status on Information window. If the Digital Input is from IP camera, the preview window will display live video of the camera.
- Digital Output** – Select it to highlight the device with green ring on map and show status on Information window. If the Digital Output is from IP camera, the preview window will display live video of the camera.
- POS** – Select it to highlight the POS device with green ring on map and display live video of first associated camera on preview window.

6.2.2 E-Map picture

This window will show the map layer and indicators.

Device Indicator:

Select device indicator from Device and Map Tree list to show preview video and related information.

Map indicator:

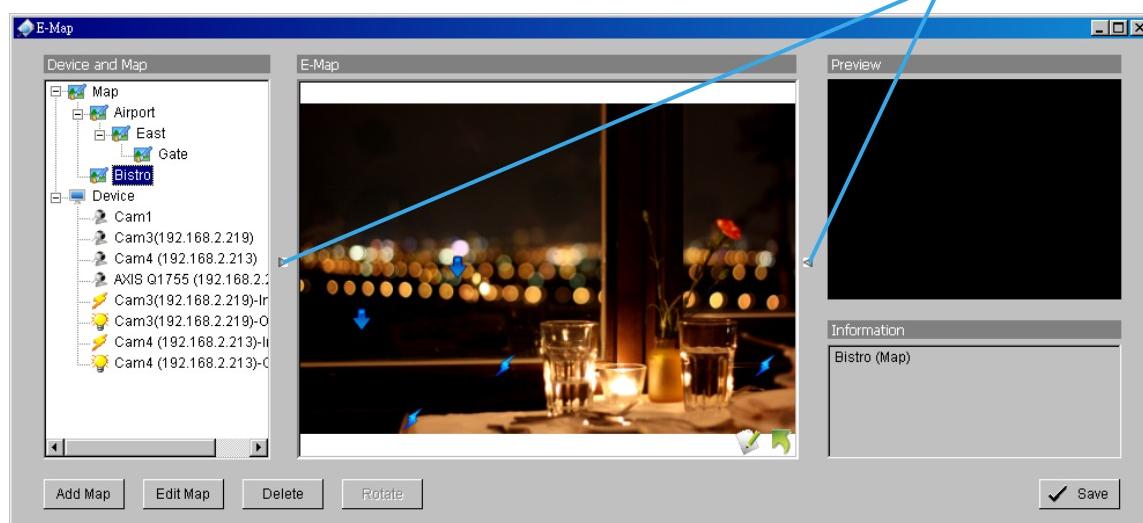
Select map indicator will enter the next map layer. If you want move to upper layer, right click on the map to select **Up** option or click right on the map layer

6.2.3 Information and Preview window

This window will show the related information of each indicator.

- Map Info** – Show map name.
- Camera** – Show camera name and connecting status.
- Digital Input** – Show Digital Input name and status (0 or 1).
- Digital Output** – Show Digital Output name and status (0 or 1).
- POS** – Show POS device name, connecting status, first associated camera name and connecting status.

6.3 Layout Adjustment



Shrink the window:

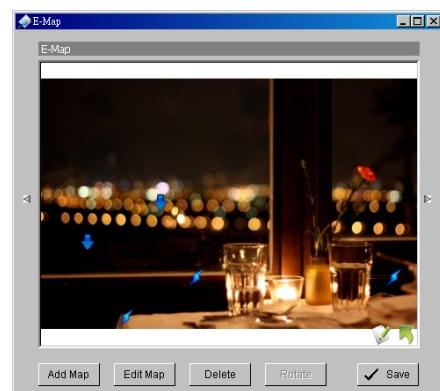
Click “► ◄ Triangular indicator” to hide the Device and Map/ Preview and Information window on right and left side, click triangular indicator again to go back to default setting.

Full screen display:

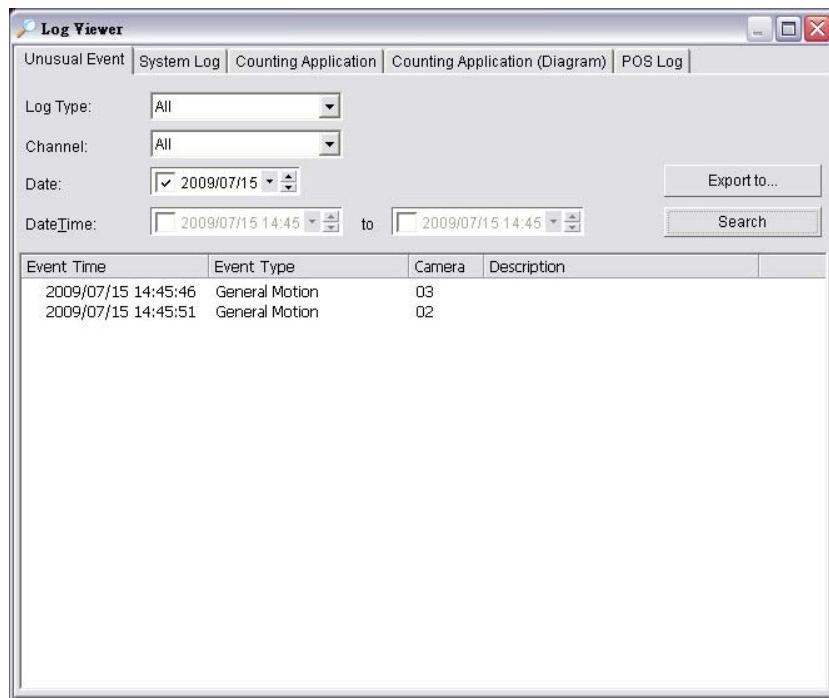
For the system with Dual- Monitor, user can view the MainConsole on primary monitor, and view the full-size E-Map on secondary monitor.

Step 1: Click “► ◄ Triangular indicator” to hide the Device and Map/ Preview and Information window on right and left side.

Step 2: Click “” on right top of the window, and then get the full screen mode of E-Map.



7. Log Viewer

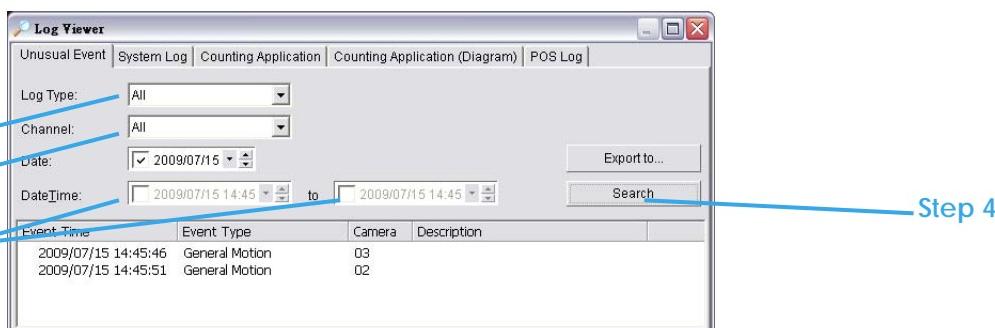


View the unusual event history that was detected by the Smart Guard System.

To launch Log Viewer and get report, simply click on **Config** and select Log Viewer from menu to open Log Viewer window.

7.1 Unusual Event

Step1
Step2
Step3



Step 4

Step1: Choose the type of events you wish to view or select **All** from the drop-down menu to view all. The types of Unusual Event include General Motion, Foreign Object, Missing Object, Focus Lost, Camera Occlusion, Signal Lost, Disk Space Exhausted, System Health Unusual and Digital Input Triggered.

Step 2: Choose the camera channel you wish to view or select **All** for all the channels available.

Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular data: check the **Date** box right and indicate the date.

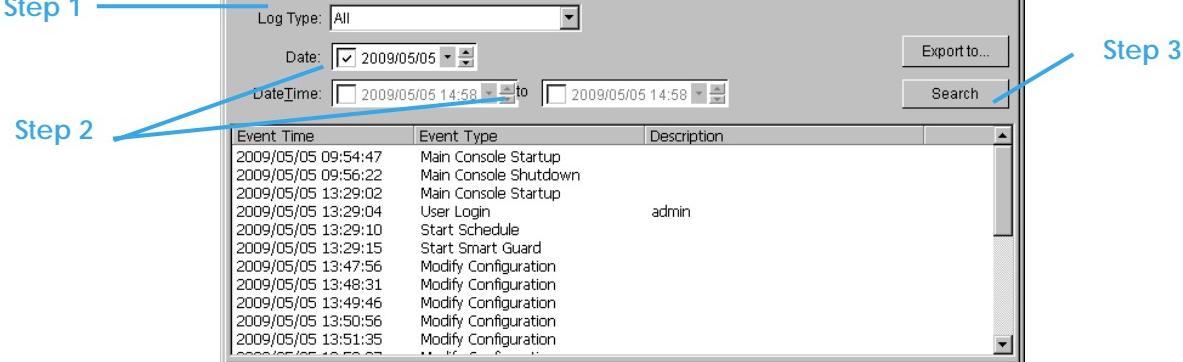
For a period: check the **DateTime** and then enter the date and time.

Step 4: Click **Search**.

Note: When working with a video record,

1. Log Viewer will search for Unusual Event in the video record in Date & Time mode, start from the beginning to the end of the record, which is the default setting of the system.

7.2 System Log



Step1: Choose the type of event you want to check or select **All** from the drop-down menu for all types of events. Select Log Type form the drop-down menu. There are total 31 types of log types, including:

- | | |
|-------------------------------|---------------------------------|
| ✓ Main Console Startup | ✓ Stop Live Streaming Server |
| ✓ Main Console Shutdown | ✓ Modify Live Streaming Server |
| ✓ User Login | ✓ Start Remote Playback Server |
| ✓ User Login Failed | ✓ Stop Remote Playback Server |
| ✓ Start Schedule | ✓ Modify Remote Playback Server |
| ✓ Stop Schedule | ✓ IP Camera Connection Lost |
| ✓ Execute Recycle | ✓ Auto Restart Windows |
| ✓ Enable Channel | ✓ Modify POS Setting |
| ✓ Disable Channel | ✓ POS Connection Lost |
| ✓ Start Smart Guard | ✓ Modify E-Map |
| ✓ Stop Smart Guard | ✓ Start Remote Desktop |
| ✓ Modify Smart Guard | ✓ Stop Remote Desktop |
| ✓ Modify Schedule | ✓ Modify Remote Desktop |
| ✓ Modify Configuration | ✓ Start Central Management |
| ✓ Start Live Streaming Server | ✓ Stop Central Management |
| | ✓ Modify Central Management |

Step 2: View the events that happened on a particular date or during a given time period by selecting

search period.

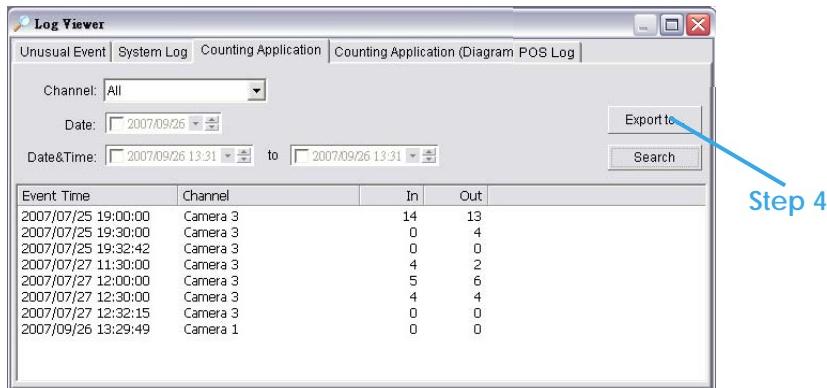
For a particular date: check the **Date** box right and indicate the date.

For a period: check the **DateTime** and then enter the date and time.

Step 3: Click **Search**.

7.3 Counting Application

Display the history of Counting Application during a given time period.



Step1: Select the channel you want to check or select **All** from the drop-down menu for all channels.

Step 2: Select search period. View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

For a period: check the **DateTime** and then enter the date and time.

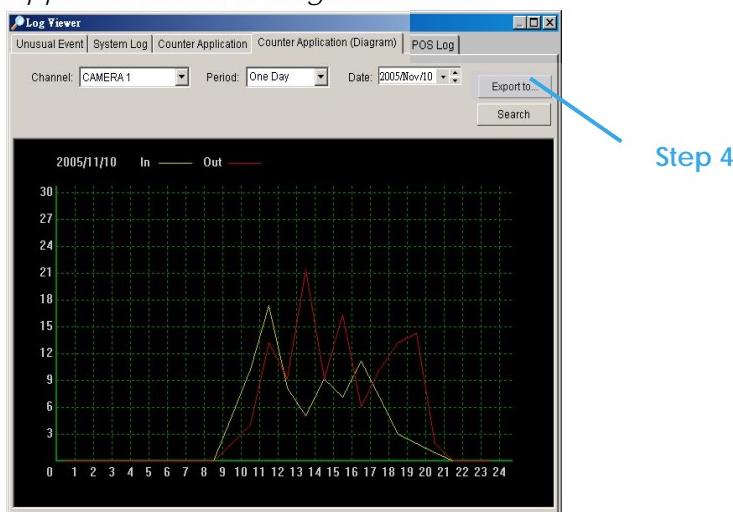
Step 3: Click **Search**.

Step 4: Press the button **Export to**.

Step 5: Type the file name and choose the file format (.xls or .txt).

7.4 Counting Application (Diagram)

Display the Counting Application data in diagram format.



Step1: Select the channel you want to check or select **All** from the drop-down menu for all channels.

Step 2: From the drop-down menu, set up how you would like the diagram to be displayed. You have the options of one day, one month, or one year.

Step 3: Select a specific date to make it the start point of the diagram.

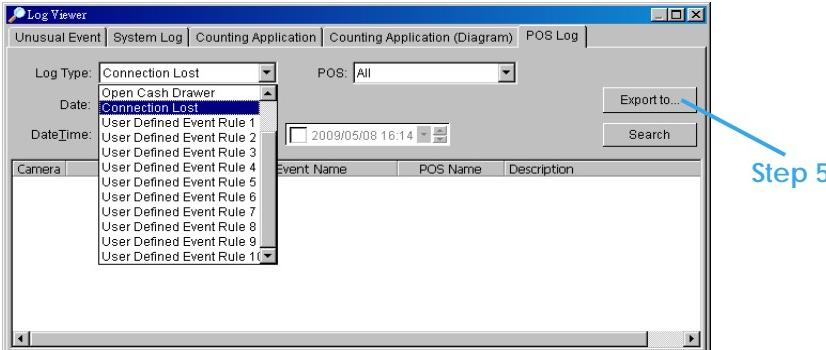
Step 4: Click **Search**.

Step 5: Press the button **Export to**.

Step 6: Type the file name and the file will save as BMP files.

7.5 POS Log

View the POS Log history that had been detected by the Smart Guard System.



Step1: Choose the type of events you wish to view or select **All** from the drop-down menu to view all types of events. The types of Unusual Event include Transaction Start, Transaction End, Open Cash Register, Connection Lost, and special User defined event. Please refer the User manual of POS for detail.

Step 2: Choose the camera channel you wish to view or select **All** for all the channels available.

Step 3: View the events that happened on a particular date or during a given time period by selecting search period.

For a particular date: check the **Date** box right and indicate the date.

For a period: check the **DateTime** and then enter the date and time.

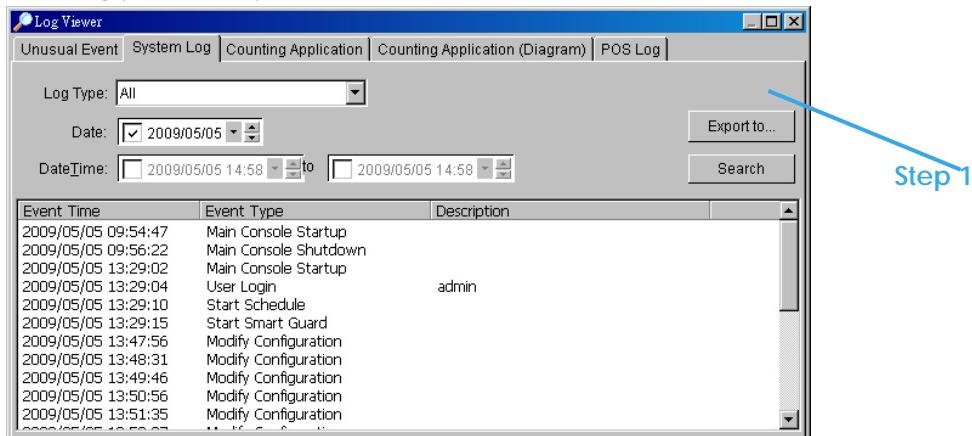
Step 4: Click **Search**.

Step 5: Press the button **Export to...**

Step 6: Type the file name and choose the file format (.xls or .txt).

7.6 Export

After search the log you want, just export it to .xls or .txt file.



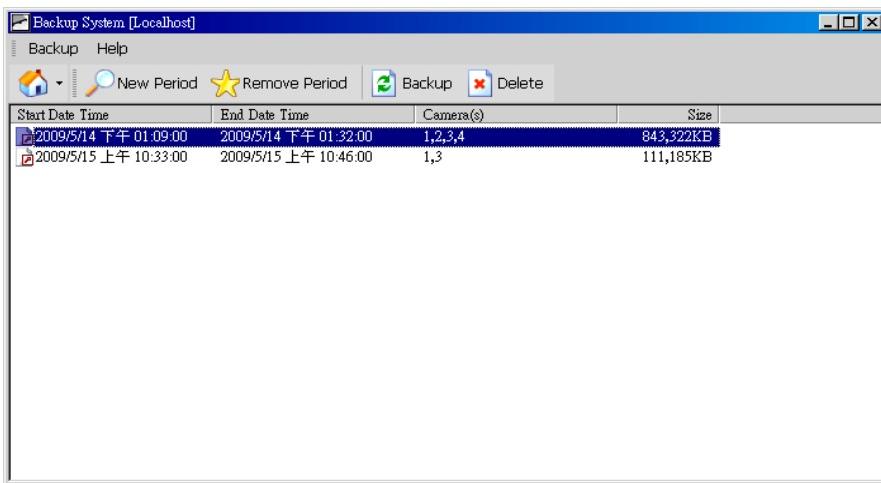
Step1: Press the button **Export to...**

Step2: Type the file name and choose the file format (.xls or .txt).

D1	A	B	C	D	E
1	EventTime	EventType	Description		
2	2007/09/21 00:45:41	Main Console Startup			
3	2007/09/21 00:45:44	User Login	admin		
4	2007/09/21 01:11:10	Main Console Shutdown			
5	2007/09/21 01:27:00	Main Console Startup			
6	2007/09/21 01:27:00	User Login	admin		
7	2007/09/21 01:28:27	Main Console Shutdown			
8	2007/09/21 15:06:51	Main Console Startup			
9	2007/09/21 15:06:52	User Login	admin		
10	2007/09/21 15:07:00	Main Console Shutdown			
11	2007/09/21 15:08:28	Main Console Startup			
12	2007/09/21 15:08:40	Main Console Shutdown			
13	2007/09/21 15:08:54	Main Console Startup			
14	2007/09/21 15:09:01	Main Console Shutdown			
15	2007/09/21 15:14:11	Main Console Startup			
16	2007/09/21 15:14:12	Main Console Shutdown			
17	2007/09/21 15:14:31	Main Console Startup			
18	2007/09/21 15:15:20	Main Console Shutdown			
19	2007/09/21 19:44:15	Main Console Startup			
20	2007/09/21 19:44:53	Main Console Shutdown			
21	2007/09/22 22:51:57	Main Console Startup			
22	2007/09/22 22:51:59	Main Console Shutdown			
23	2007/09/22 22:52:14	Main Console Startup			
24	2007/09/22 22:52:18	User Logout	admin		
25	2007/09/22 22:52:24	Main Console Shutdown			
26	2007/09/22 23:53:01	Main Console Startup			

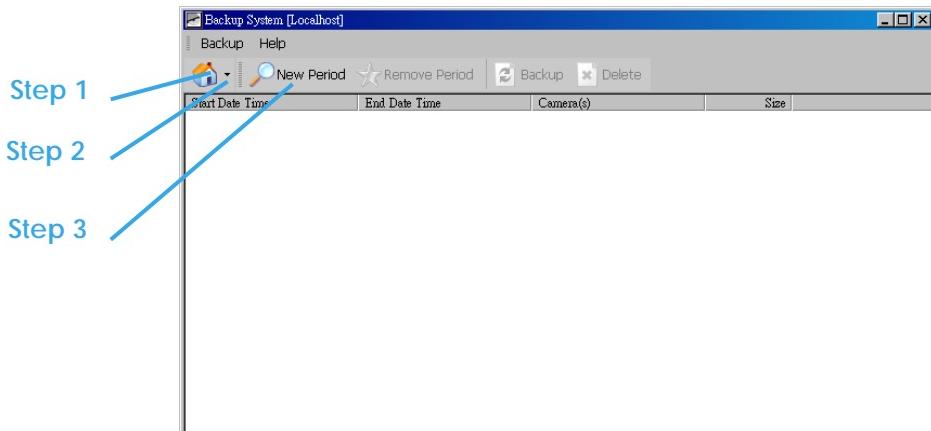
```
2007/09/12 00:45:41, Main Console Startup,
2007/09/12 00:45:44, User Login, admin
2007/09/12 01:11:10, Main Console Shutdown,
2007/09/12 01:27:04, Main Console Startup,
2007/09/12 01:27:05, User Login, admin
2007/09/12 01:28:27, Main Console Shutdown,
2007/09/12 15:06:51, Main Console Startup,
2007/09/12 15:06:52, User Login, admin
2007/09/12 15:07:04, Main Console Shutdown,
2007/09/12 15:08:28, Main Console Startup,
2007/09/12 15:08:40, Main Console Shutdown,
2007/09/12 15:08:54, Main Console Startup,
2007/09/12 15:09:01, Main Console Shutdown,
2007/09/12 15:14:11, Main Console Startup,
2007/09/12 15:14:12, Main Console Shutdown,
2007/09/12 15:14:31, Main Console Startup,
2007/09/12 15:15:20, Main Console Shutdown,
2007/09/12 19:44:15, Main Console Startup,
2007/09/12 19:44:58, Main Console Shutdown,
2007/09/12 22:51:57, Main Console Startup,
2007/09/12 22:51:59, Main Console Shutdown,
2007/09/12 22:52:14, Main Console Startup,
2007/09/12 22:52:18, User Login, admin
2007/09/12 22:52:24, Main Console Shutdown,
2007/09/12 22:53:19, Main Console Startup,
```

8. Backup



The backup function saves recorded video and other log information. User may open backup files on any PC with Windows Operating System and operate the full function Playback panel on it. Follow the instructions below to obtain backup files.

8.1 Backup Recorded file(s)



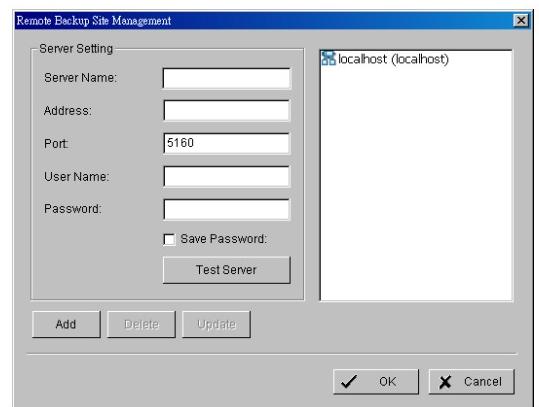
Step 1: Add (Remote) Backup Site: Press the "Remote Server" icon can go to remote backup site management to add and setup the backup site.

- Enter the IP address or DNS, Port, Username, and Password.
- Click **Add** to add the server.
- Click **OK** to exit the Setting panel.

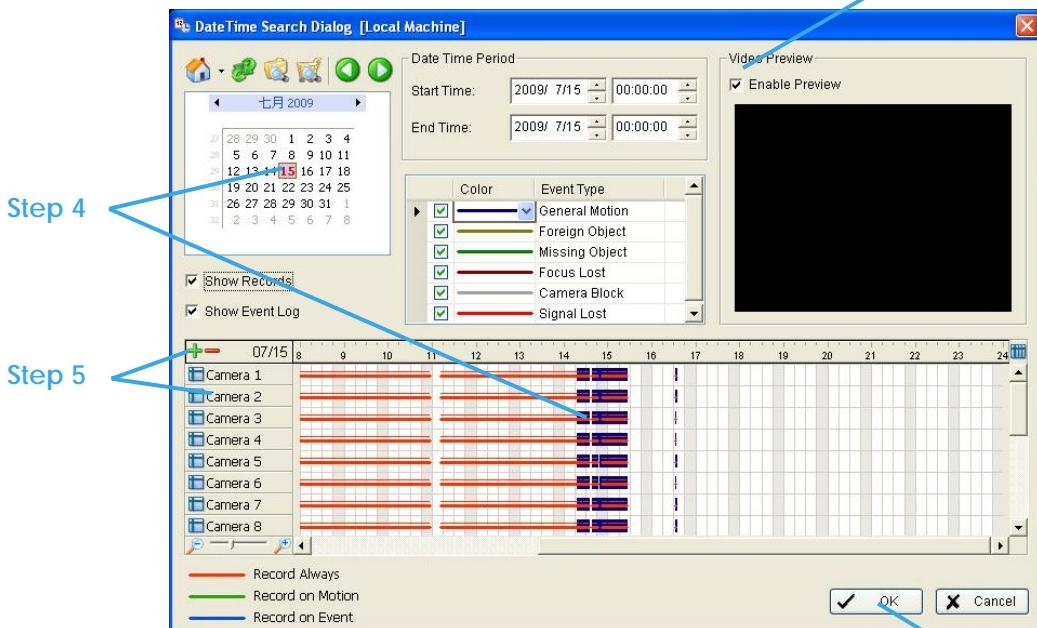
Step 2: Access (Remote) Backup Site: Click on the icon and insert the username/password of the remote server to access the backup Site.

Step 3: Click on New Period to obtain the Select Date/Time Period panel.

Step 4: Select the data you want to backup by highlighting the time period. Besides the time-table, you may also set up start time and end time in the Date Time Period section.



Step 6

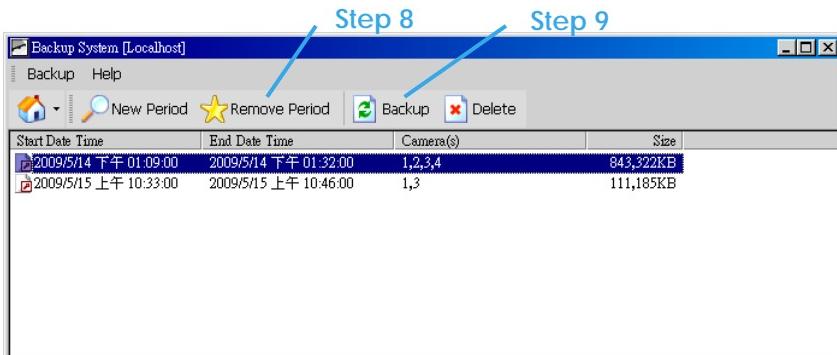


Step 5: Click on the camera number icon to add camera(s) or click to add/delete all the channels.

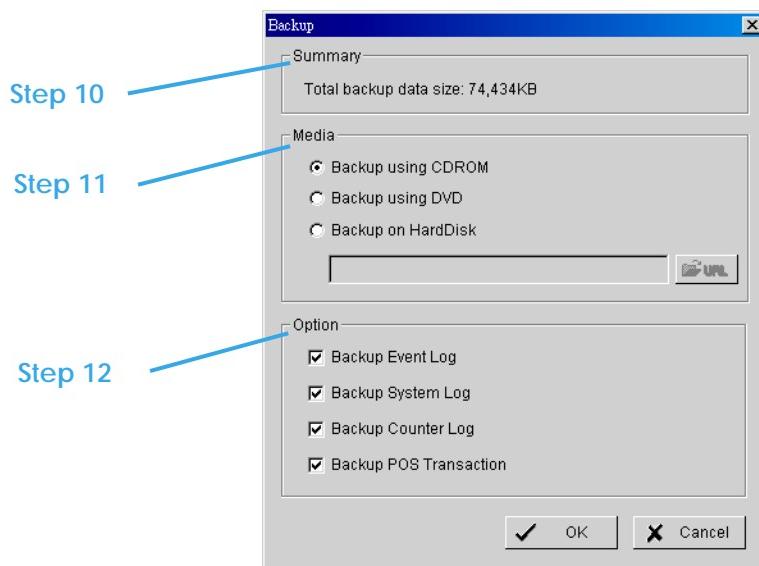
Step 6: Check the box of Enable Preview to get the preview of the video you select.

Step 7: Click OK when the settings are complete and go back to the Backup System panel.

Step 8: If there is any data period not wanted, click Remove Period to remove the data period on the backup list.



Step 9: Click the Backup icon to obtain Backup panel.



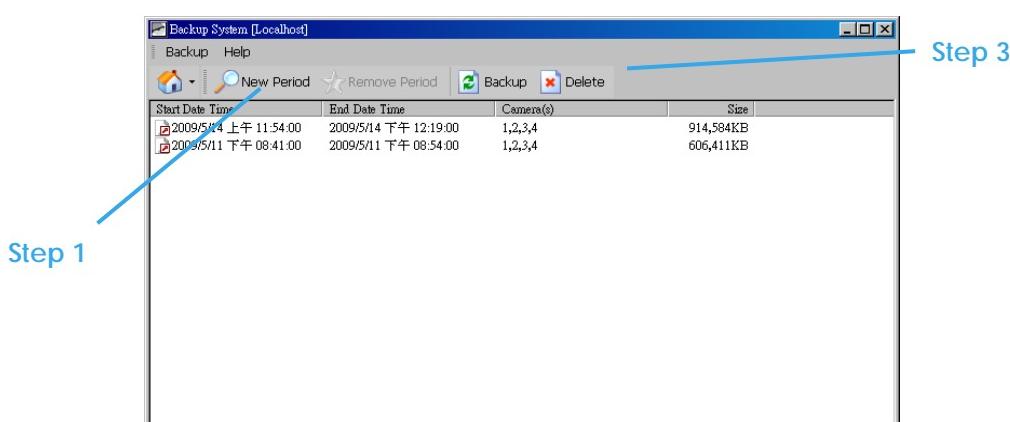
Step 10: Summary: Check the summary section to see the size of the file(s).

Step 11: Media: Choose the path you want to save the file or burn the file into a CD (direct CD burning for Windows XP only), DVD or on Hard Disk.

Step 12: Option: Select the log information you would like to backup (Event Log, System Log, Counter Log and POS Transaction), and then click OK.

8.2 Delete Recorded file(s)

Step 1: Click on "New Period" to obtain the Select Date Time Period panel.



Step 2: Follow steps 3-7 on above (backup) section to select data period which you want to delete.

Step 3: Click on the Delete icon and delete all the data in the backup list from the database.

Note: Deleted video cannot be recovered.

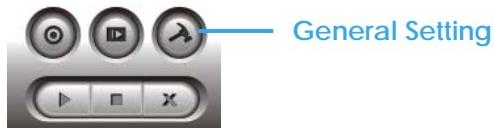
9. Remote Live Viewer



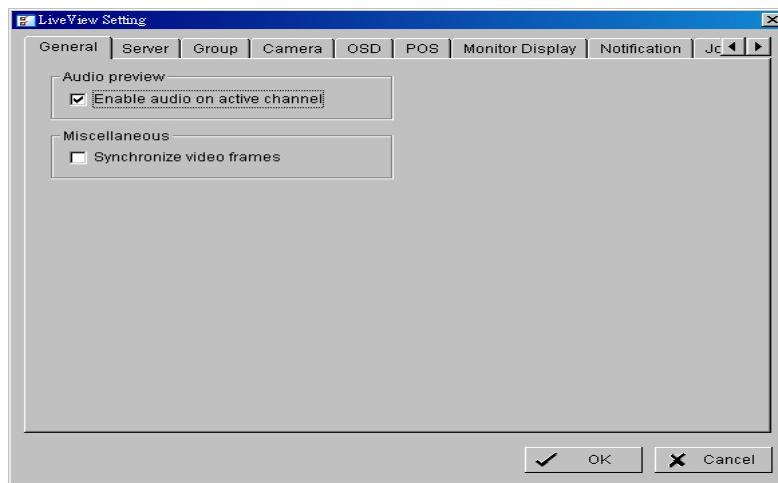
With the Remote Live Viewer console, remote users may watch up to 128 channels real-time video from remote live streaming servers.

9.1 Setting

Click General Setting to obtain setting dialog.



9.1.1 General Setting



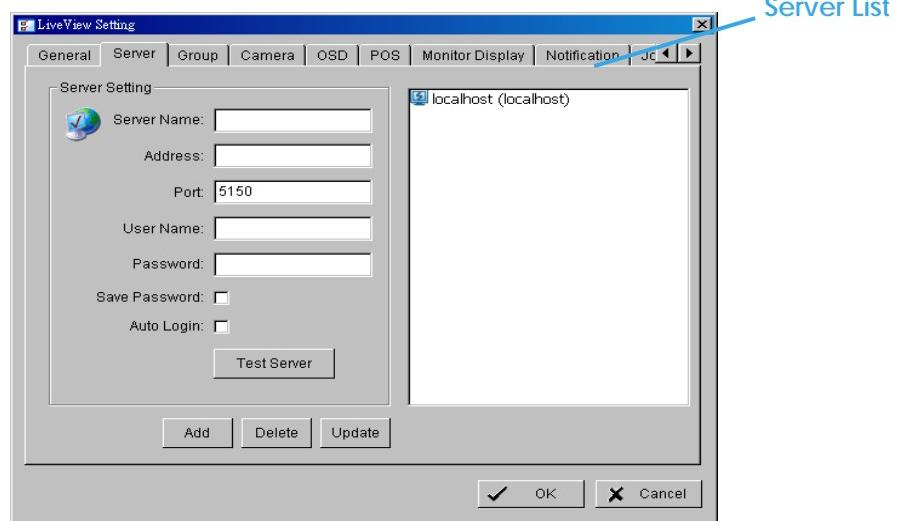
Audio preview:

- **Enable audio on active channel:** Select it to enable the audio streaming on active channel.

Miscellaneous:

- **Synchronize video frames:** Select it to avoid the tearing problem occurring in video display while increasing the CPU loading.

9.1.2 Server setting



Step 1: Enter the Server Name as preference.

Step 2: Enter the Address, Port, User Name, and Password to log in the server.

Step 3: Enable the Save Password to login without entering the password again.

Step 4: Enable the Auto Login to login automatically when starting the Remote Live Viewer.

Step 5: Click on Test Server to check if the server is available.

Step 6: Click Add to insert the setting to server list.

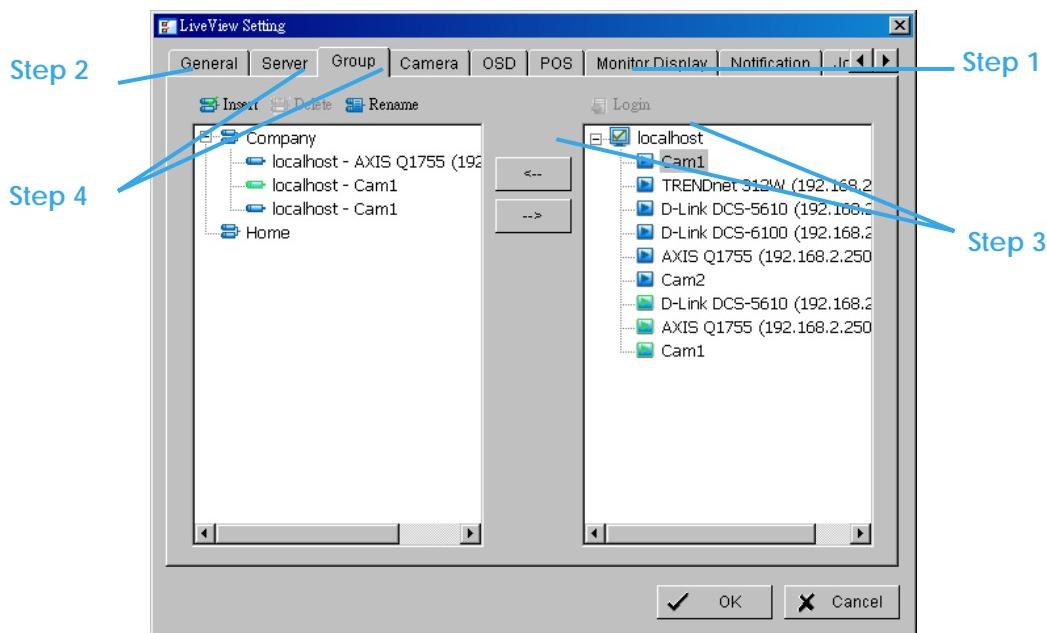
Note:

To change the setting, select a server on server list and click "Update" after modify setting.

To remove the server, select a server on server list and then click "Delete".

9.1.3 Group Setting

Allocate different cameras into each appointed group.



Step 1: Log in to all the servers that contain the camera(s) you would like to put into the group(s).

Step 2: Click Insert to create a new group; name the group for future reference.

Step 3: From the window at the right, highlight the camera(s) that you would like to add to a group and then click on the “<--” button. Repeat the process until satisfied with the group setting.

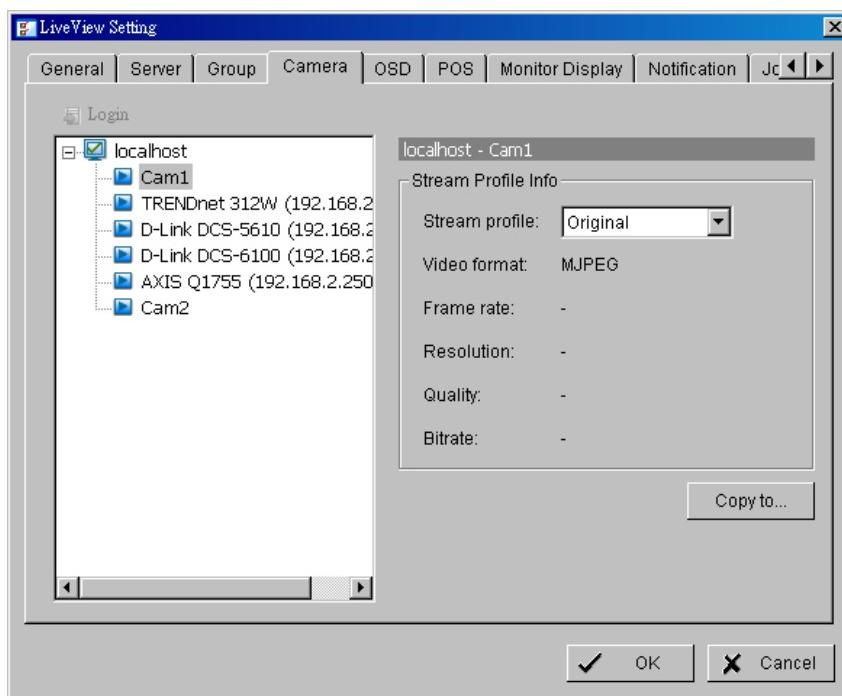
Step 4: Click on the Delete and Rename button to remove or rename a specific group.

Step 5: Repeat Step 2 to 4 to adjust the group setting until satisfied.

Step 6: Click OK.

9.1.4 Camera Setting

Select the preferred stream type of each camera as default live view profile.



Stream profile: The list would differ with video input type of server

Auto: The system will adjust the stream type automatically to fit different screen division.

Recoded: The system will follow the stream profile set in Main Console > Schedule > Encoding Options.

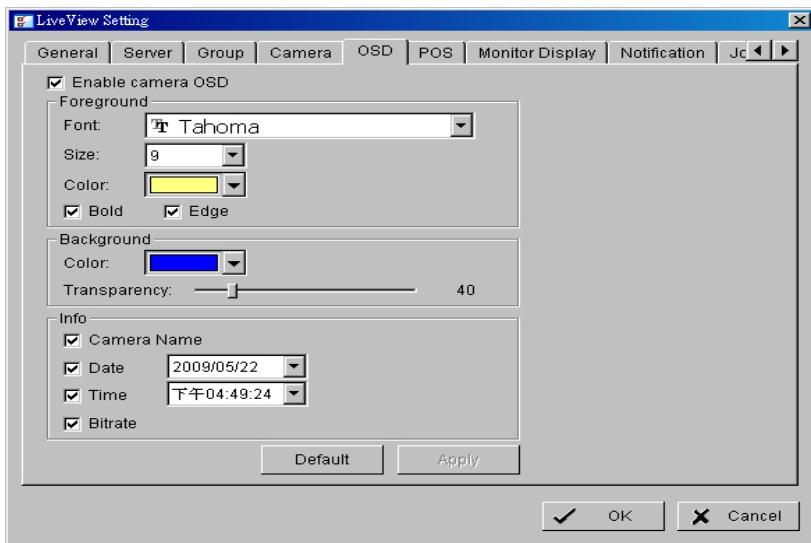
High / Normal / Low/ Minimum / H.264 (SCB-7000s only): The system will follow the stream profile set in Main Console - Setting - Camera - Stream Profile.

Original (IP only): The system will display the streaming directly from the IP camera and video server.

Copy to: Select in order to copy the preferred stream profile of a channel to all of the listed channels.

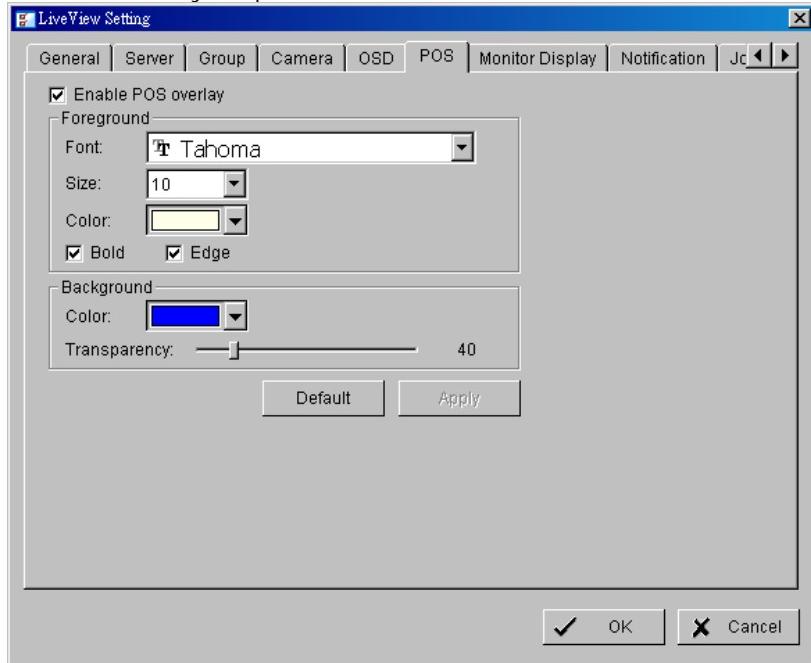
9.1.5 OSD Setting

Adjust font style of Camera OSD on this panel.



9.1.6 POS Setting

Adjust font style of POS overlay on panel.

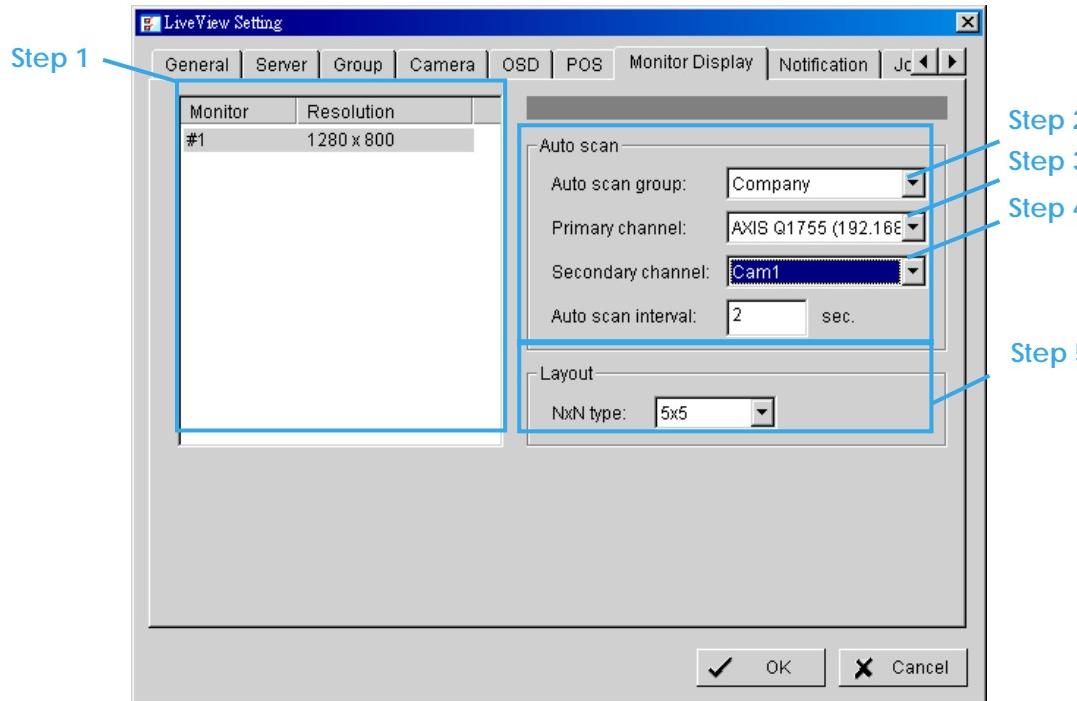


9.1.7 Monitor Display Setting

Activate auto scan to rotate the channels/ cameras on screen.

Note:

- For instance, you may select to show only 4 sub-screens on the live viewer while having 16 channels connected to the system. With auto scan function, you will be able to see all 16 channels by turns.
- Each monitor supports up to an 8x8 layout with auto scan function to show 128 channels.



Step 1: Select the Monitor connected to the system.

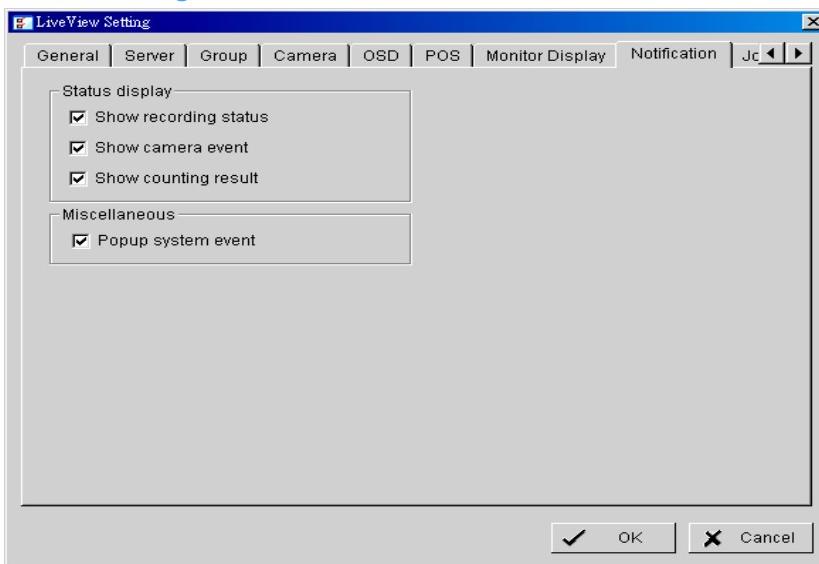
Step 2: Auto scan group: Select appointed server group to activate auto scan settings.

Step 3: Primary channel: Select appointed channel that will always be on the screen when activating auto scan settings.

Step 4: Secondary channel: Select appointed channel that has secondary priority then primary channel on the screen when activating auto scan settings.

Step 5: Layout: Select the screen division of "NxN type" in Remote live viewer panel.

9.1.8 Notification Setting



Status display:

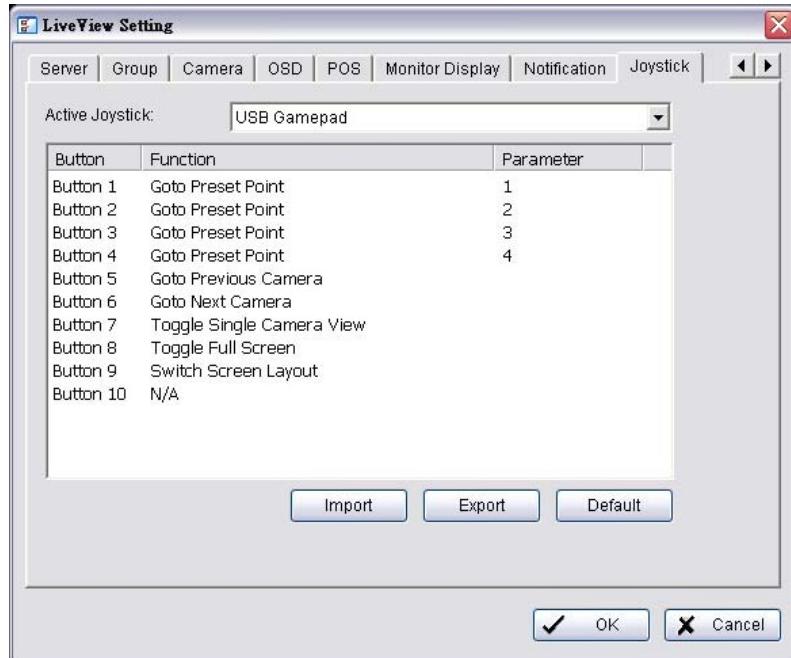
- **Show recording status:** Select it to show the crystal ball with recording status on monitor display.
- **Show camera event:** Select it to show the smart guard detected event appointed in Main Console on each channel.
Note: To execute this function, need setup on screen display as an action of Smart Guard instant response.
- **Show counting result:** Select it to show the counting result appointed in Main Console on each channel.

Miscellaneous:

- **Popup system event:** Select it to allow the System event appointed in Main Console popping up a message to warn.

9.1.9 Joystick Setting

Switch to Joystick tab and the configuration is the same as on Main console, refer to page 75 for details.



9.2 Server/Group/Camera

Display a complete list of the server(s), group(s) and camera(s) that are added to the system.

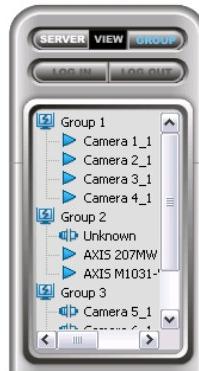
Server View: The cameras would list beyond associated server.

Group View: The cameras would list beyond customized grouping.

Server View



Group View



9.2.1 login/logout server

Option1: Select a server on list, and then click on the LOG IN/ LOG OUT icon to access/ leave the server.

Option2: On the server list, right click on it to obtain the menu options.

Log In/Log Out Server



9.2.2 Connect/Disconnect camera

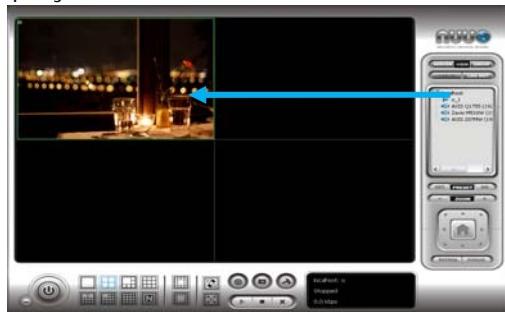
Option1: On the server/camera list, double click on a camera to connect it.

Option2: On the server/ camera list, right click on a camera to obtain the menu options to connect/ disconnect it.

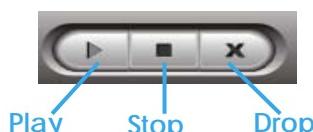
Connect/Disconnect Camera



Option3: Select a camera(s) from the list, and then drag it to where you want the image to be displayed.



Option4: Play / Stop/ Drop: Select a camera/ video and click on this button to play/stop/disconnect a particular channel.



9.2.3 Multiple Views:

Step1: On the server/camera list, select a camera and right click on it to obtain the menu options.

Step2: Select Duplicate Camera and the duplicate camera with green indicator



will display below on camera list.

Step3: Double click on the duplicated camera to connect it and display on screen.

9.3 PTZ Control

Control the movement of PTZ cameras. With cameras that support PTZ control, you can move, zoom, patrol, adjust the focus, and set preset points of the cameras.

9.3.1 Preset/ Go

Adjust the camera view until satisfied. Click on the Set icon and set up the view as the preset point 01. Adjust the camera view again and set up the preset point 02. Repeat the process until finish setting up all preset points. Enter any names you want instead of the preset point 01, preset point 02, preset point 03..., click on the Go icon and view the result of your setting.

Note: For the speed settings of PTZ camera, please setup on Main Console – Config – Setting - PTZ Config.

9.3.2 Zoom

Click on the + and – signs to zoom in and zoom out the view.

9.3.3 Focus

You can select to have the camera focused near or far. To focus near means objects that are closer will be clearer than the objects that are further away. On contrast, to focus far means objects that are further will be clearer than the objects that are closer. Click on the Focus icon and select auto focus if you want the system to decide the focus point for you.

9.3.4 Patrol

To control PTZ camera to patrol around pre-defined path of preset points, click on Patrol button to start/stop patrol.

Note: To setup patrol path, please setup on Main Console - Config – Setting - PTZ Config - Patrol.

9.4 On Screen Menu

Right click on the camera screen and get the On Screen Menu, from which you can quickly adjust the setting of camera.

- Enable Move
- Enable Digital PTZ
- ImmerVision Lens Setting
- Stream Profile
- Instant Playback
- Enable Audio
- Snapshot
- Toggle Fullscreen

9.4.1 Enable Move / Area Zoom

With cameras that support PT function, click the Enable Move function to adjust the current camera's view by clicking on the display screen. To cancel this function, right click on the screen and select Disable Move.

With cameras that support Area Zoom function, click the Enable Move/Area Zoom function to adjust the current camera's view by dragging a rectangle on the display screen. To cancel this function, right click on the screen and select Disable Move/Area Zoom.

9.4.2 Enable Digital PTZ

To enable the PTZ functions of the camera, select the Enable digital PTZ option. Use mouse wheel or click on the + and – signs to zoom in and zoom out on the camera, or drag a rectangle to enlarge the area.

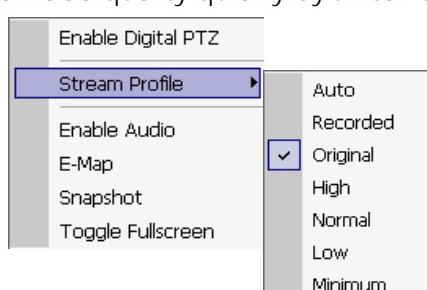
The square flashing on the video grid indicate the correspondent view of the camera.

9.4.3 ImmerVision Lens Setting

With cameras that support ImmerVision Lens. Right click on the display screen and select the mode of lens, original, PTZ mode, Quad mode and Perimeter mode. If the lens setting set as Quad, PTZ, or Perimeter mode, the Enable Digital PTZ option would become Enable ImmerVision digital PTZ.

9.4.4 Stream Profile

The function helps to change video quality quickly by switch Stream Profile.



9.4.5 Instant Playback

To open the Instant Playback window of the camera, select the Instant Playback option and choose the period. The instant playback windows allow to browser recorded video, snapshot image and export video with audio and POS transaction data.

To browse recorded video

By simply clicking the timeline you can view the video, or by using the below navigation tools to control the player.



- Play / Pause / Stop



- Speed up/Speed down control



- play Forward/reverse frame by frame



- play Previous / Next minute video

To snapshot of video clip

Pause the video in image which wants to export and click snapshot button . The snapshot is displayed and can be saved or copied to clipboard.

To export recorded video

Select export period and click export button , and setup the options of export video.

Adjust to original video resolution button is the tool to adjust the video to original video resolution.

Audio button help to turn on / turn off the audio.

POS button is to enable / disable POS transaction data overlay.

9.4.6 Enable Audio

With cameras that support audio function, click the Enable Audio function to listen the current camera's audio by clicking on the display screen. To cancel this function, right click on the screen and de-select Enable Audio.

9.4.7 Snapshot

The snapshot function could copy and capture a specific video image to the clipboard or to save as bmp file. The snapshot could customize to add OSD, POS information, and captured selected range only when viewing video with digital zoom in.

9.4.8 Toggle Full screen

Switch to view video with full screen display. To disable the function, right click on screen and de-select option or simply press "ESC" to go back to original window.

9.5 Start Monitor

9.5.1 Multiple Monitor

Select Open Monitor to append monitor to view more live videos on multiple monitors. Each appended monitor has the same list and view control buttons as the Main monitor, with the exception of the Start, Playback, and Setting buttons.

9.5.2 E-Map

Select Open E-Map to obtain the E-Map window, the GUI map help to

Start Monitor



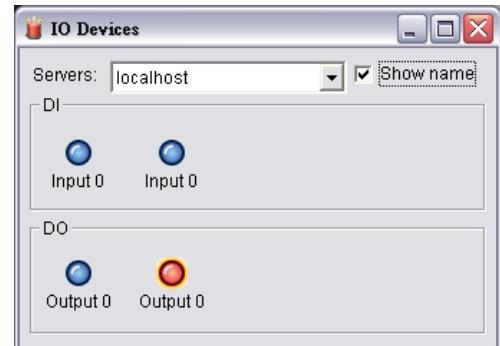
find up devices easily and have information window to show the status of each device.

-  **Map Info** – Show map name.
-  **Camera** – Show camera name and connecting status.
-  **Digital Input** – Show Digital Input name and status (0 or 1).
-  **Digital Output** – Show Digital Output name and status (0 or 1).
-  **POS** – Show POS device name, connecting status, first associated camera name and connecting status.

9.5.3 I/O Control

Select to obtain the I/O control panel, the panel helps to view status and control DO devices remotely.

Note: Adjust the setting of I/O device in Main console – Config – Setting - I/O Device first, the I/O control panel will display the device status based these settings.



9.6 Playback

Select it to obtain the Playback panel and view video remotely.

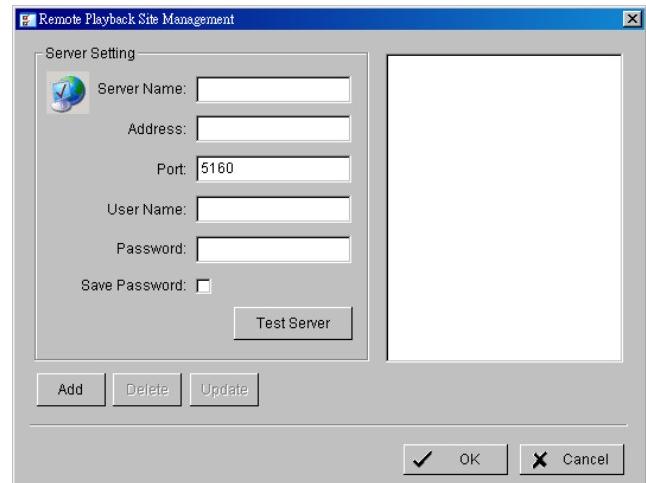
9.6.1 Add Remote Playback Site

Press the Remote Server  icon to go to the remote playback site management to add and setup the remote playback.

Step 1: Enter the IP address or DNS, Port, Username, and Password.

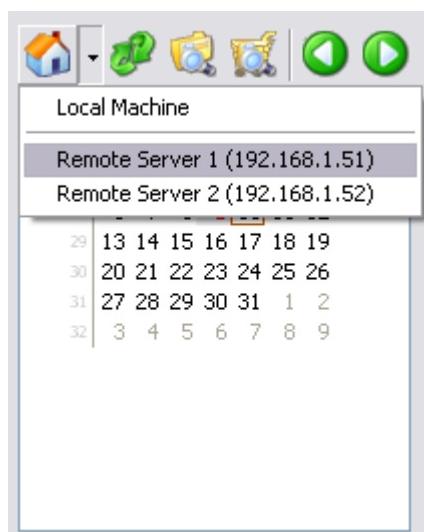
Step 2: Click Add to add the server.

Step 3: Click OK to exit the Setting panel.

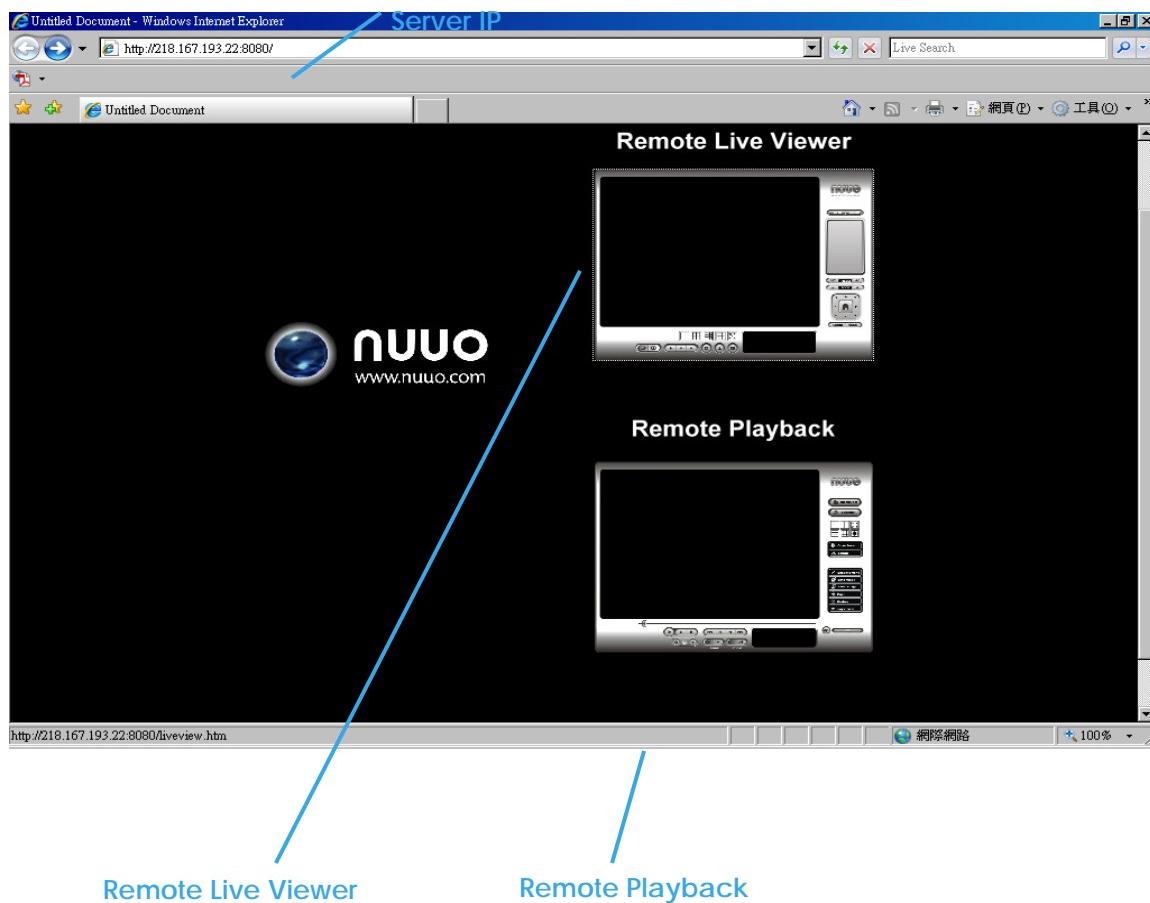


9.6.2 Access Remote Playback Site

Go to Date/Time Panel and click on the  icon on the top of the display window to access the Remote Playback Site



10. Web View



Note: Make sure the Live Stream Server is enabled. Check 5.14 Network Service for more detail.

10.1 Server IP

Open an Internet Explorer browser and enter the IP address or DDNS "name" of the server followed by the connecting port.

Example: <http://192.168.1.16:8080/>

Note: 192.168.1.16 is the IP address of the server.

8080 is the port specified in Use Default Web Server in Network Service.

10.2 Remote Live Viewer

Press this icon to use Remote Live Viewer which functions are the same as Remote Live Viewer. See page96.

10.3 Remote Playback

Press this icon to use Remote Playback which functions the same as Playback but remote server and backup functions. See page 30.

11. Utilities

- A. Verification Tool
- B. License Management Tool
- C. Resource Management Tool
- D. DB Tool

The Intelligent Surveillance Solution

NUUO NVR/DVR/Hybrid NDVR System

A. Verification Tool



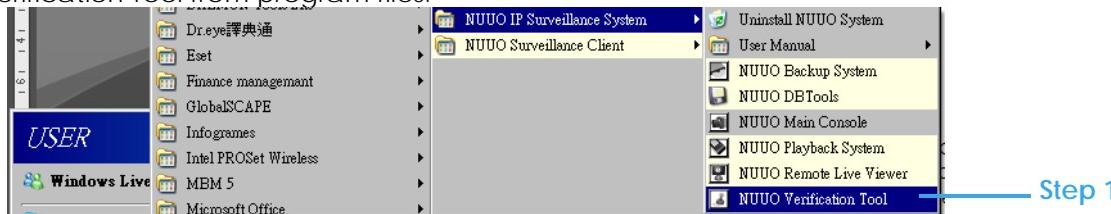
The Verification Tool verifies whether the data created by the system has been tampered with. It is the process by which a digital watermark (a digital signature) is added to each recorded video frame to ensure its authenticity.

There are 3 types of data could be verified by Verification Tool:

1. File in (.DAT) (.264) format will be displayed as
2. File in (.AVI) (.ASF) format will be displayed as
3. File in (.BMP) (.JPG) format will be displayed as

1.1 Execute Verification Tool

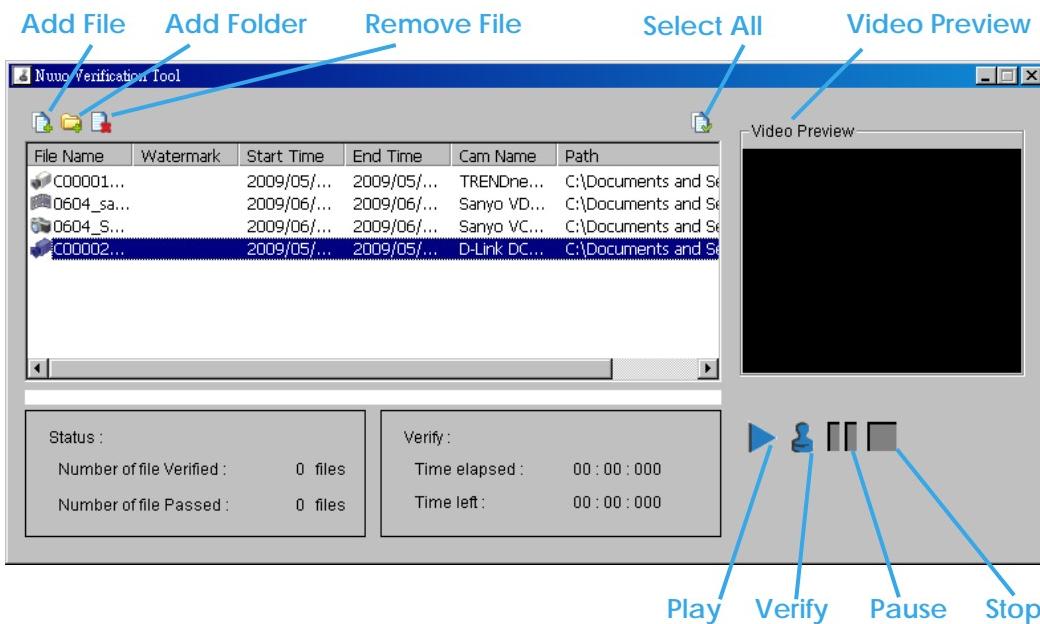
Step 1: Execute Verification Tool from program files.



Step 2: Insert the Administrator Password to log in.

Step 3: The Verification Tool appears after login.

1.2 Verification Tool Overview



Add File: Click it to insert the single file to list for verification.

Add Folder: Click it to choose the folder with multiple files to list for verification.

Remove File: Click it to remove indicated file(s) from list.

Select All: Click it to select all files in list for verification.

Note:

1. Choose the file type first before selecting files. Only (.dat) (.264) (.avi) (.asf) (.bmp) (.jpg) are available to open.
2. User could also drag files to the list for verification.

Video Preview: Check this column to preview indicated file in verification list. Select the button below preview window to play , Pause , and Stop the file.

Note: Preview of (.bmp) (.jpg) format is not allowed.

1.3 Verify Image/Video

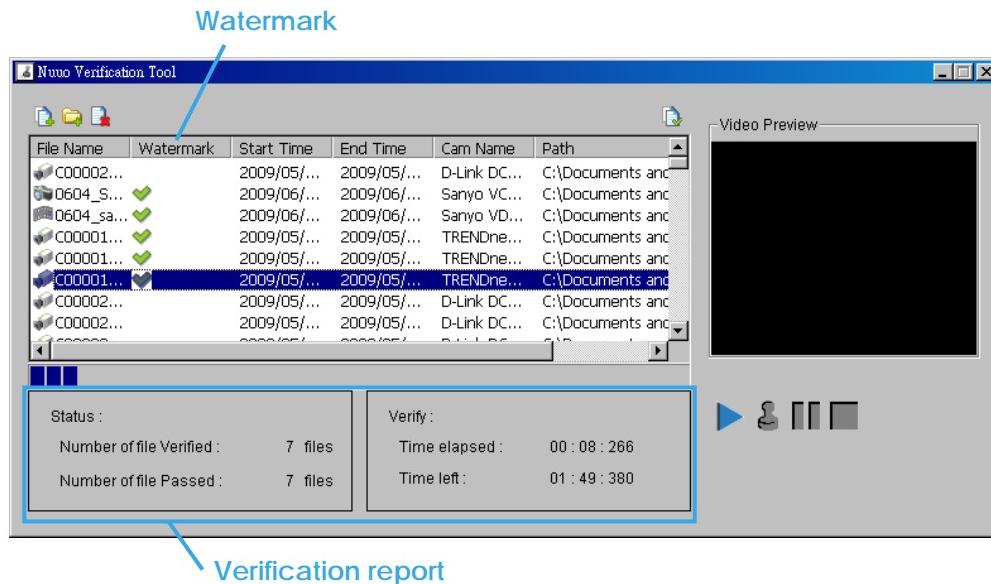
Step 1: Select single or multiple files for verification.

Step 2: Click "verify" to start verification.

Step 3: The verification result will show on watermark column.

If a file was tampered with, it will show .

If a file passed verification, it will show .



Step 4: The verification report will indicate the information related to the verification.

B. License Management Tool

The license of the software should be registered first before operating the former version of Intelligent Surveillance System.

Execute the License Management Tool to activate the license from dongle or serial number allocated with the software package, or de-activate the license then bring it to another PC to activate it again.

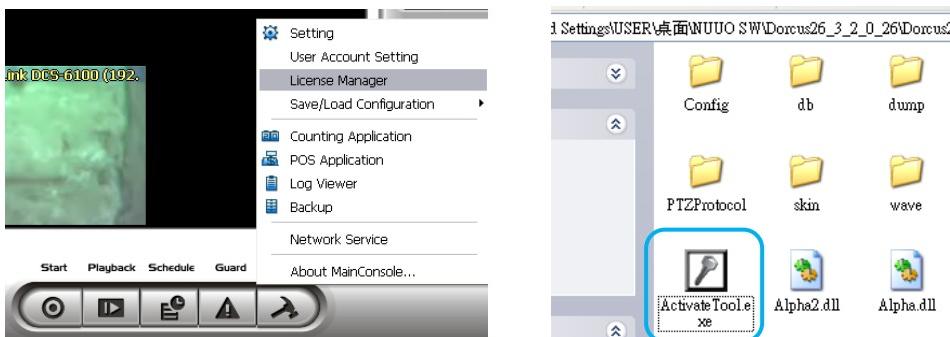
Both "On line" and "Off line" status of PC environment could execute the tool to "activate" or "transfer" the license. Below list 4 types of license management process:

- To "activate" the license with PC connected to network, follow the Activation On Line process.
- To "activate" the license with PC not connected to network, follow the Activation Off line process.
- To "de-activate/transfer" the license with PC connected to network, follow the Transfer On Line process.
- To "de-activate/transfer" the license with PC not connected to network, follow the Transfer Off line process.

1.1 License Management Tool Overview

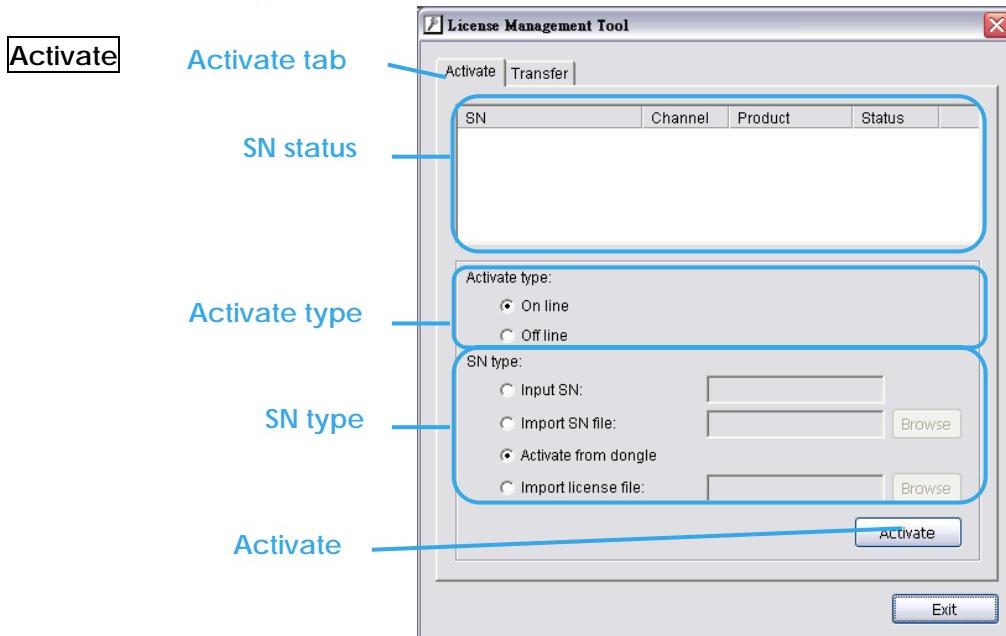
1.1.1 Execute License Management Tool

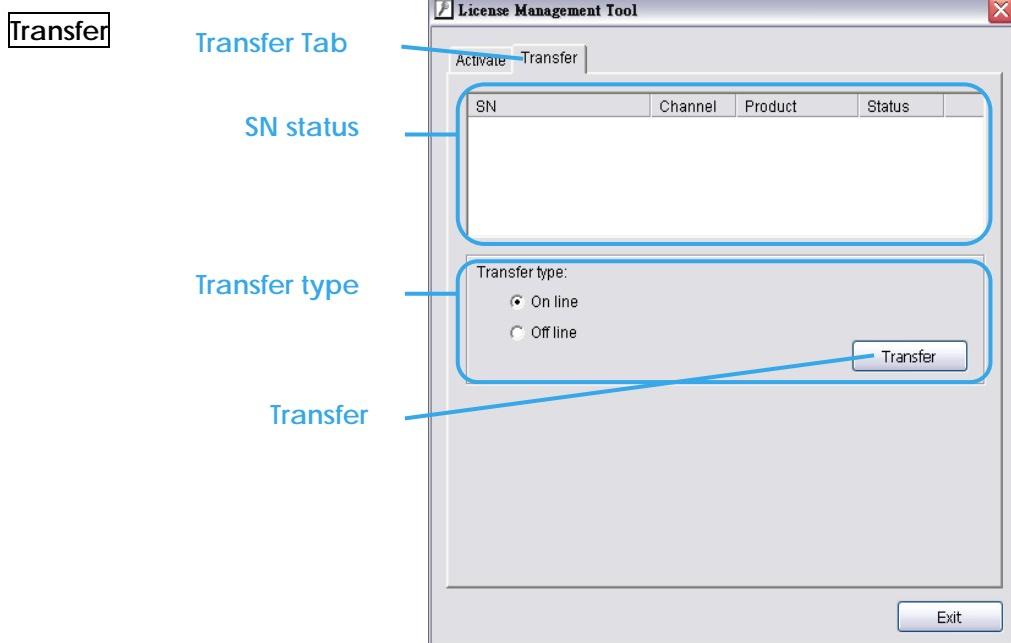
Step 1: Execute License Manager Tool in config menu or installation folders.



Step 2: The "License Management Tool" will appear. Please refer below for the tool overview.

1.1.2 License Management Tool Overview





1.2 Activate/Transfer License

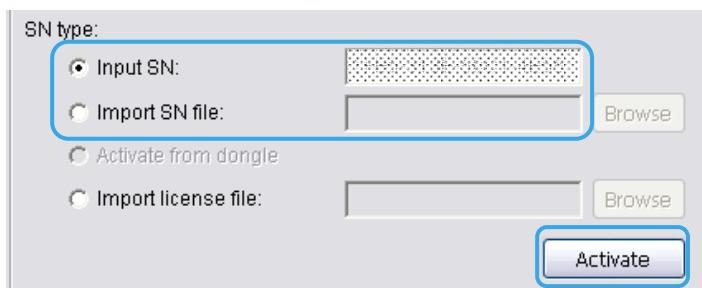
1.2.1 Activate License

Activation Online

Step 1: Open License Manager Tool.

Step 2: Select On line as Activate type.

Step 3: Input the SN (Serial number) or Import SN file, and then click on Activate button.



Step 4: Restart MainConsole if activated successfully.

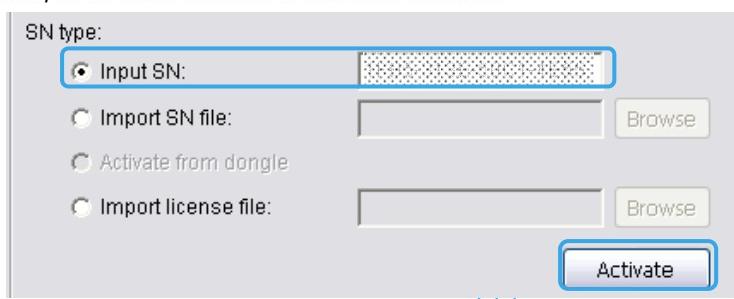
Activation Off line

Step 1: Open License Manager Tool.

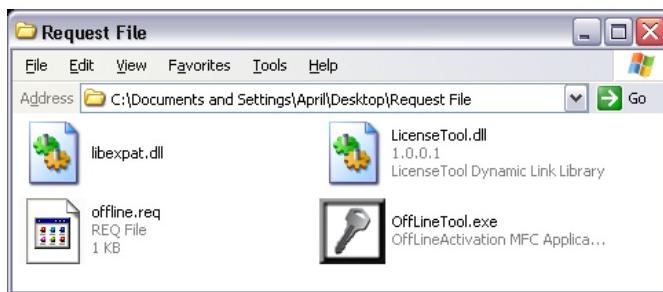
Step 2: Select Off line as Activate type.



Step 3: Insert the SN, and then click on Activate button.



Step 4: Save Request file, and then take it to another PC that is connected to the Internet.

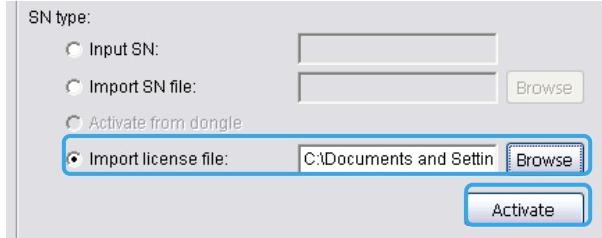


Step 5: Execute OffLineTool.exe in another PC, and then click Activate to send request file to license server.



Step 6: Save License file, and then take it to original NVR system.

Step 7: Open License Manager Tool again, select Import license file, and then click Activate button to activate.



Step 8: Restart MainConsole if activated successfully.

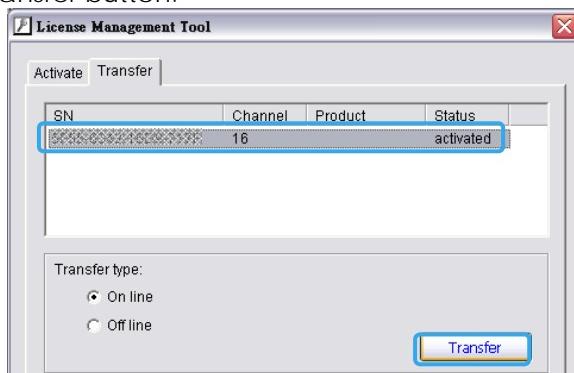
1.2.2 Transfer License

Transfer On line

Step 1: Open License Manager Tool.

Step 2: Select Transfer Tab, and then check On line as Transfer type.

Step 3: Select SN and click on Transfer button.



Step 4: Restart MainConsole if activated successfully.

Transfer Off line

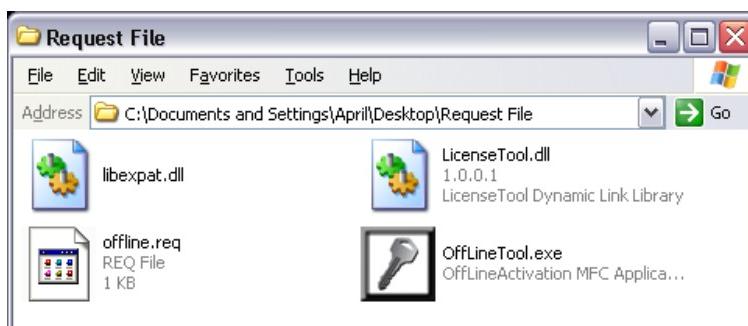
Step 1: Open License Manager Tool.

Step 2: Select Transfer Tab, and then check Off Line as Transfer type.

Step 3: Select SN, and then click Transfer button to transfer SN.



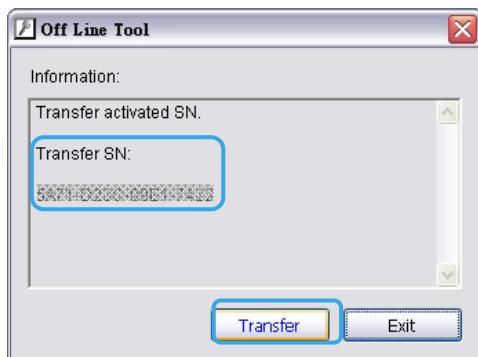
Step 4: Save Request file. Restart MainConsole if activated successfully.



Step 5: Copy request file to another PC connected to internet.

request file to another PC

Step 6: Execute OffLineTool.exe in another PC, check Transfer SN and click Transfer to send request file to license server.



Note: User needs to copy request file to another PC and send it to license server, otherwise the SN can't be re-activate again!!



C. Resource Management Tool

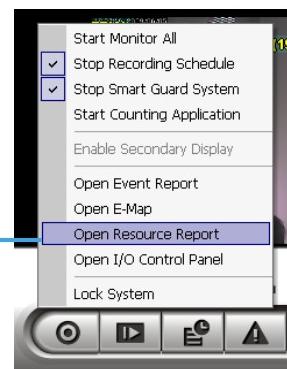
The Resource Management Tool detects whether the system is operational.

Note: For further application of Resource Management Tool, please refer page 52 In "Guard" chapter.

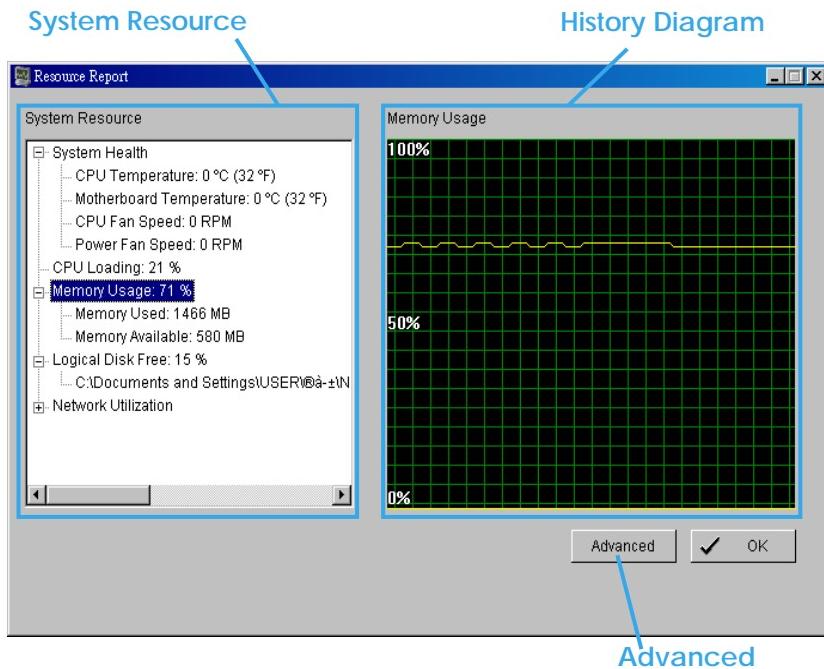
1.1 Execute Resource Management tool

Step 1: Open Resource Report from start menu.

Step 2: The Resource Management Tool will appear.



1.2 System Resource Overview



1.2.1 System Resource

System Health: This item shows the system information, including "CPU Temperature", "Motherboard Temperature", "CPU Fan Speed" and "Power Fan Speed".

Note: User needs to install the "SpeedFan" first to gather the CPU and Motherboard temperature information.

CPU Loading: This item shows the percentage of CPU usage.

Memory Usage: This item shows the memory usage of system. "Memory Used" and "Memory Available" are included.

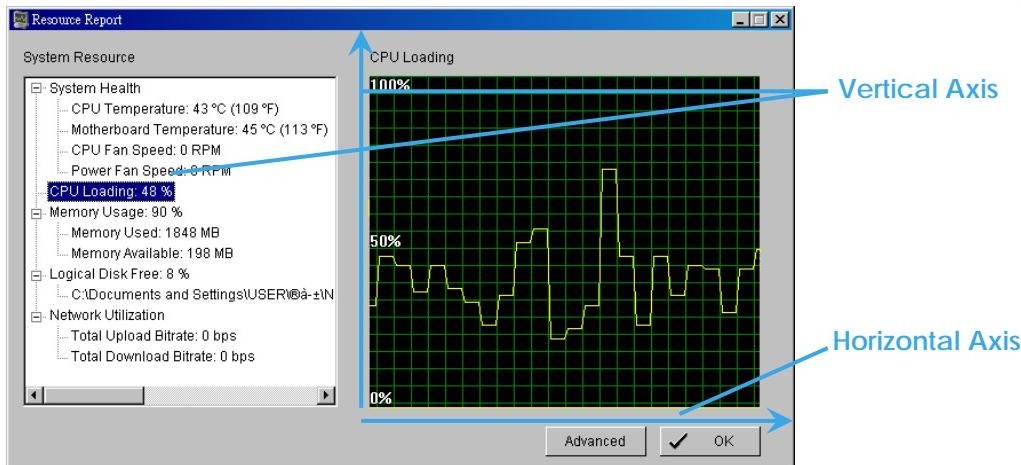
Logical Disk Free: This item shows the percentage of available disk space for storage.

Note: The disk directory will be the same as the one in MainConsole – Config – Setting – Storage - Location.

Network Utilization: This item shows the total bit-rate utilization for the upload and download of the computer.

1.2.2 Instant Diagram

Click each item in the list to obtain the instant system diagram. The "system resource" will be displayed as each variable in Vertical Axis; the unit of Horizontal Axis will be displayed as "Per Second".



1.3 Advanced Resource Report

Click the Advanced button to search and export system logs in "Search" tab and obtain the history diagram of an specified period in "Diagram" tab.

1.3.1 Search

The screenshot shows the 'Advanced Resource Report' search window. It has tabs for 'Search' and 'Display'. Under 'Search', there are fields for 'Type' (set to 'CPU Loading'), 'Date' (set to '2009/06/08'), and 'DateTime' (set to '2009/06/08 15:51'). Below these are 'Export to' and 'Search' buttons. The main area is a table with columns: Start Time, End Time, Log Type, Avg., Min., and Max. The table lists numerous entries of CPU loading data from June 8, 2009, at 15:54 to 16:02. At the bottom are 'OK' and 'Cancel' buttons. Blue arrows labeled 'Step 1' through 'Step 5' point to the 'Type' field, 'Date' field, 'Search' button, 'Export to' button, and 'OK' button respectively.

Step 1: Choose the system event type, and then select the standard percentage to search system log.

Step 2: Select the Date/Time duration to search system log.

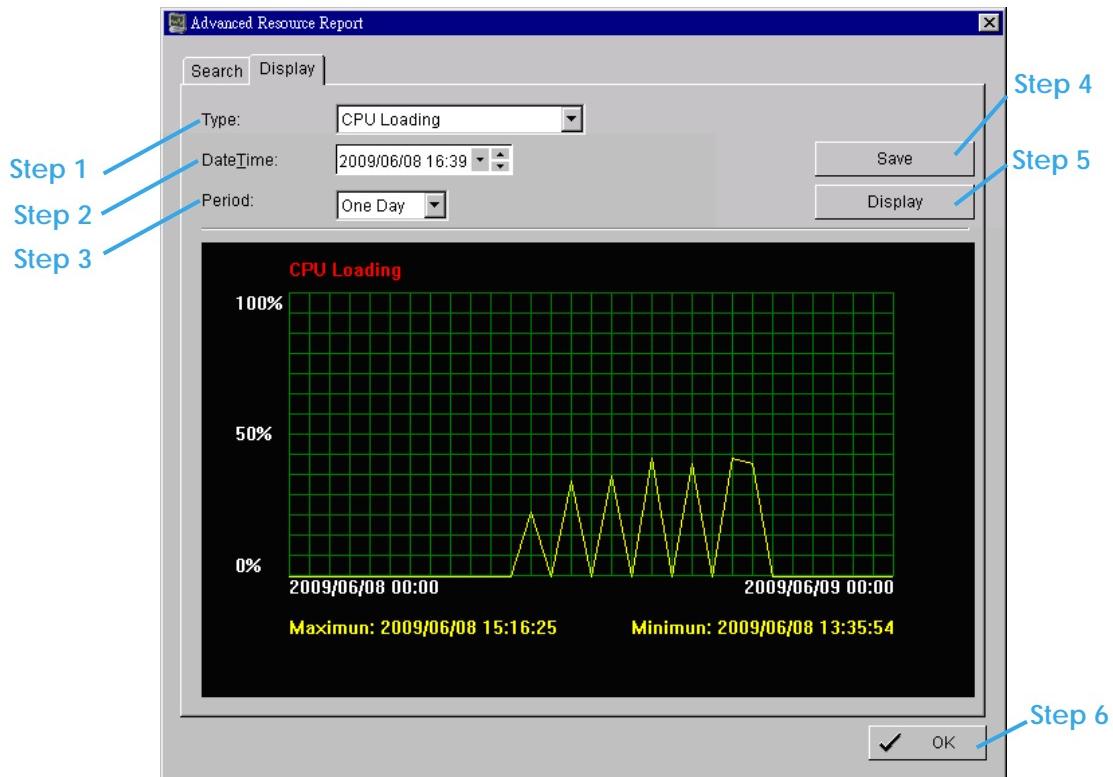
Step 3: Click Search to start searching, the system logs will be listed below.

Step 4: Click Export to to save the system log in (*.xls) or (*.txt) format.

Step 5: Click OK to close the report window.

	A	B	C	D	E	F
1	StartTime	EndTime	LogType	Avg	Max	Min
2	2009/06/08 12:20:23	2009/06/08 12:20:28	CPU loading	54	54	54
3	2009/06/08 12:20:53	2009/06/08 12:20:58	CPU loading	65.5	54	77
4	2009/06/08 12:21:13	2009/06/08 12:21:18	CPU loading	61.67	54	77
5	2009/06/08 12:21:23	2009/06/08 12:21:28	CPU loading	65.5	54	77
6	2009/06/08 12:21:53	2009/06/08 12:21:58	CPU loading	64.2	54	77
7	2009/06/08 12:22:53	2009/06/08 12:22:58	CPU loading	62.33	53	77
8	2009/06/08 12:23:48	2009/06/08 12:23:53	CPU loading	61.86	53	77
9	2009/06/08 12:24:48	2009/06/08 12:24:58	CPU loading	59.44	51	77

1.3.2 Display



Step 1: Choose the system event type.

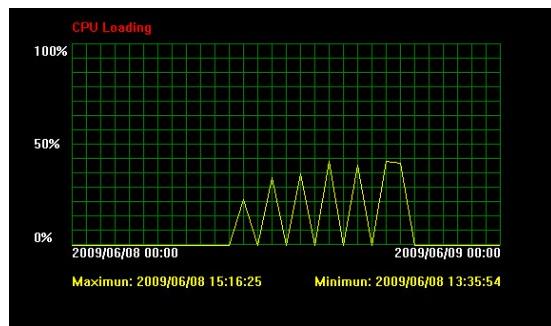
Step 2: Select the Date/Time to draft history diagram.

Step 3: Setup the start time and duration for charting. User can choose "One Day", "One Hour" or "One Minute" as the duration.

Step 4: Click "**Display**" to start charting, the diagram will be displayed at below column.

Step 5: Click "**Save**" to save the diagram in (*.bmp) format.

Step 6: Click "**OK**" to close the report window.

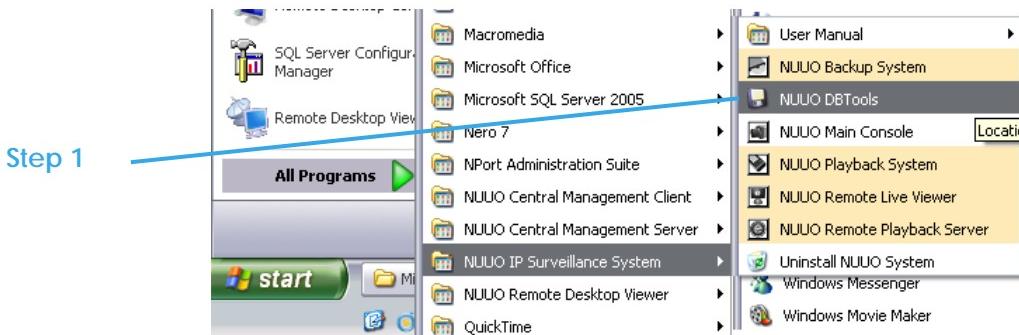


D. DB Tool

The DB Tool repairs database files and Export configurations.

Warning: improper use of this DB Tool may cause loss of recorded video.

Step 1: Execute DB Tool from program files.



Step 2: Enter the password of administrator to log in.



1.1 Repair Database

This page has three repair method, Modify Location, Verify Only, and Repair.

For modify location:

NUUO Playback system can recognize all recording video in the folders listed on MainConsole - Config - Setting - General page. For some reason, user needs to use Playback system to open recording video beyond storage location setting. For this propose, user could follow below steps to modify location by DB tool.

Note: The default storage location is in the installation directory, (ex: C:\Program Files\NUUO\SCB_IP)

Step 1: Select Repair database.

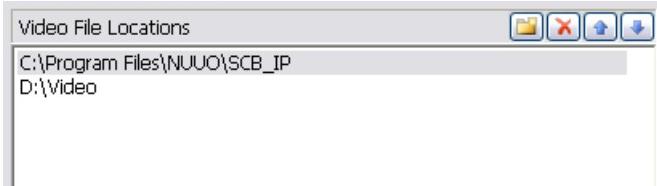


Step 2: Select the repair Method as Modify Location.



Step 3: For add database location, please click on  button and use URL to choose location.

For remove database location, please choose location from list and click on  button to remove location.



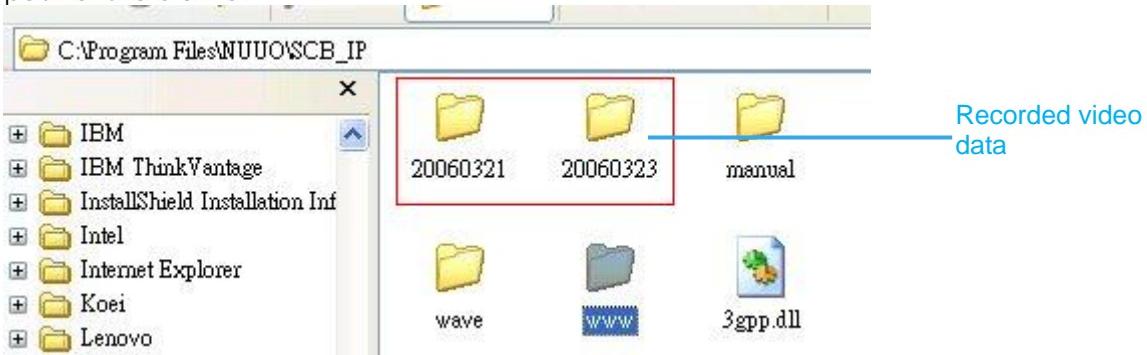
Step 4: Click on Modify button to modify location. After modification, the Modify Result will show on the panel.



Example of modify database:

In certain cases where video data needs to be transferred from one PC to another PC, user will need to perform the following:

1. Manually copy all recorded video data from the default installation path or other user-defined storage path of the old PC.



2. Manually paste all recorded video data to the default installation path or other user-defined storage path of the new PC
3. Follow previous page to add new location on new PC.
4. Old recorded video data can be viewed by NUUO playback system on the new PC.

For verify and repair proposes:

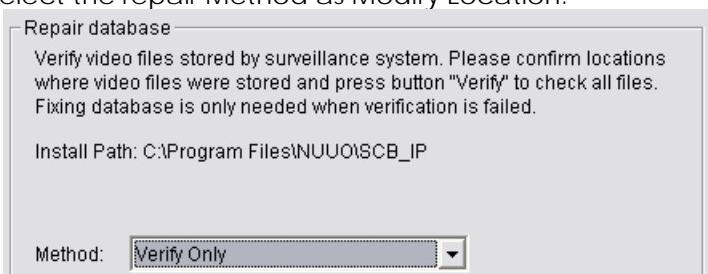
This tool is used to check and repair your database and recorded video with problems:

- (1) If there are records in database, but no video file, use this DB Tools to delete records.
- (2) If there are video files but no record in database, use this DB Tools to rearrange the database and find these records.

Step 1: Switch to Repair database windows.



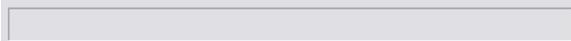
Step 2: Select the repair Method as Modify Location.



Step 3: Check the video location windows.

The system will list all video locations in table, but if there are any omit, please use  to insert.
Note: After inserting location, the system will show files count below table.

File Count: 41



Step 4: Choose the method of "Verify Only", and click "verify". This method will only check the files without modify. Verify result will show how many files broken or missing.

Verify Result: 41 files verified, 0 files broken, 0 files missing.



Step 5: Choose the method of "Repair (Complete)", and click "Repair". The Repair Result will show how many files are fixed and inserted.

Repair Result: 2 files fixed, 41 files inserted.

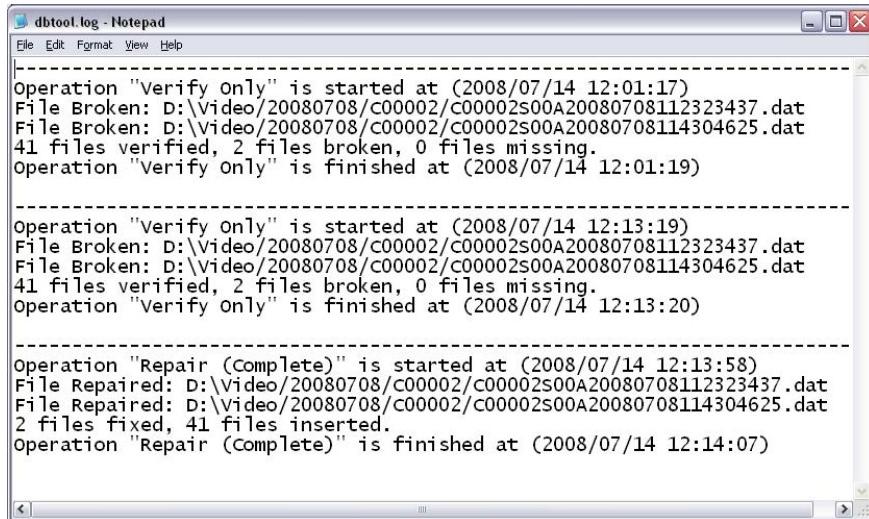


Step 6: The repaired new database will replace the old one and the original database will change file names with extended repair date and time as below.

Address: D:\SCB-IP

Name
EventLog.mdb
FileRecord.mdb
FileRecord.mdb_20080714A121358.mdb
PosRecord.mdb
ScheduleConfig.mdb
SystemLog.mdb
SystemLog.mdb_20080714A121358.mdb

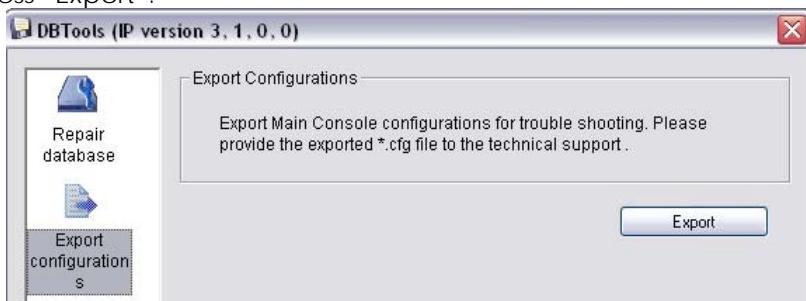
Note: Open Log is a tool to record the repaired database. It will record repair method, file operation, start time and end time.



1.2 Export Configurations

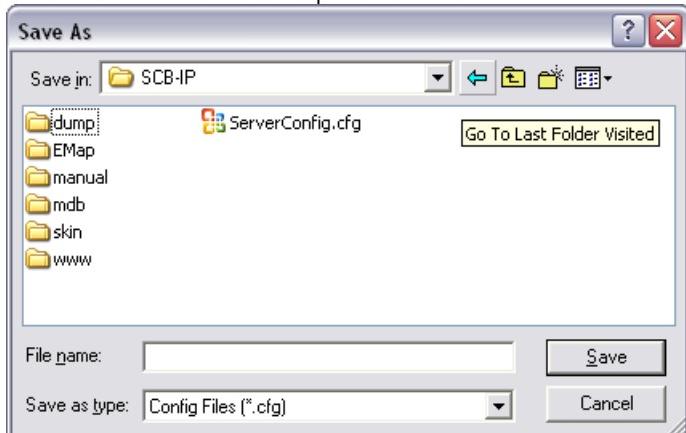
This tool is used when user wants to export all system configurations to backup, take to another PC for NUUO technical trouble shooting.

Step 1: Press "Export".



Step 2: Select the location you want to Export and type the name of the configurations.

Step 3: Press "Save" to start to import database.



Appendix A - 3GPP Service

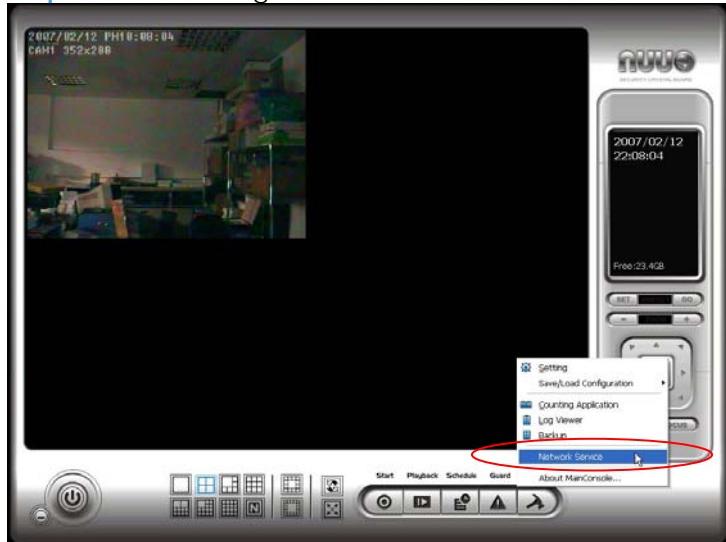
How to setup 3GPP streaming connection (using BenQ-Siemens mobile phones)

System Configuration

NUUO DVR / NVR server v2.6	
CPU:	Intel core2 Duo 1.86 GHz
Memory:	512 DDR RAM
Ethernet:	Realtek RTL8168/8111 PCI-E
Hard Disk:	160GB
Graphic card:	ASUS Extreme AX550
Operating System:	Windows XP Professional SP2
Mobile Phone:	BenQ-Siemens E81

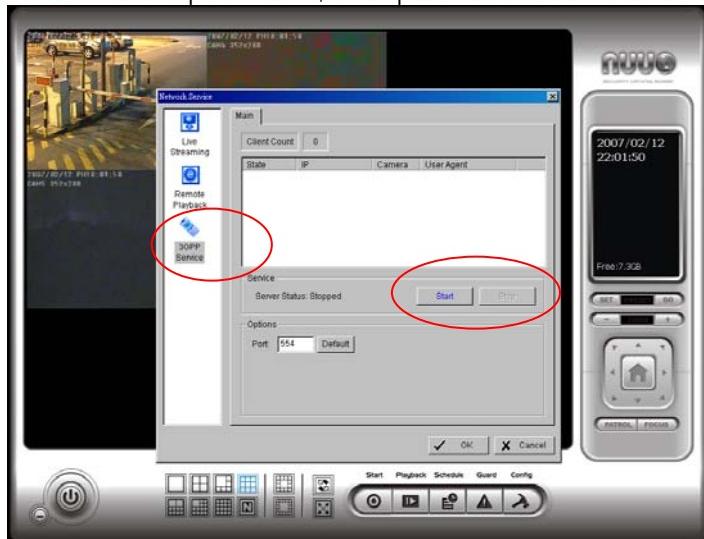
1.1 Configuration from NUUO server

Step 1: Go to Config and select Network Service



Step 2: Select 3GPP Service, and then click Start

Note: In the Option item, the "port" selected here is the same port from mobile handset



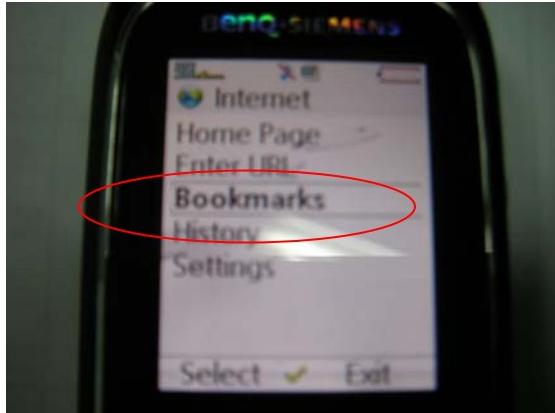
1.2 Configuration from 3G Mobile Phone

1.2.1 BenQ-Siemens E81

Step 1: Go to Menu, then Internet



Step 2: Select Bookmarks



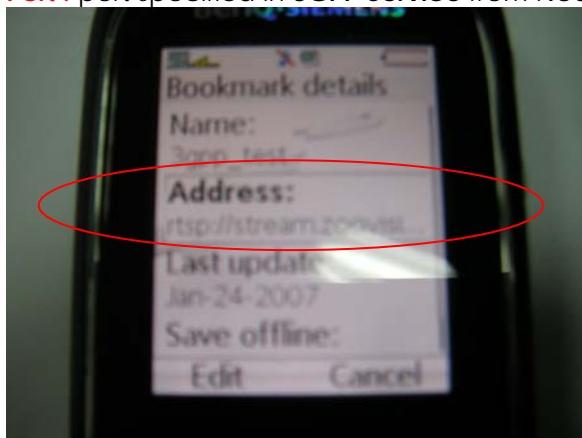
Step 3: Add New Bookmark

Step 4: Configure the Address setting as the following example.

Ex: rtsp://61.216.97.69:554/**media00**.3gp

61.216.97.69:554 is the IP address of NUUO NVR or DVR system

Port : port specified in **3GPP Service** from NUUO NVR or DVR system



Step 5: Save the settings and start playing

1.2.2 BenQ P50

Step 1: Connect GPRS

Step 2: Download and install the [PLATFORM4] software.

Step 3: Execute the Main Console.

Step 4: Press the [Config] → [Network Service] → [Start]

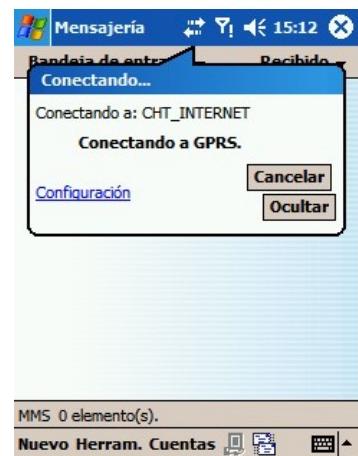
Step 5: Open [PLATFORM4], press the button framed by red into Option

Step 6: [Open URL] enter the RTSP address of the camera

EX: rtsp://61.216.97.69/media00.3gp → channel 1

EX: rtsp://61.216.97.69/media01.3gp → channel 2

EX: rtsp://61.216.97.69/media02.3gp → channel 3



Step 7: [Setting I] change the setting and press "OK"

[Protocol] **TCP**

[Buffer Size] **60**

[Connection TimeOut] **103**

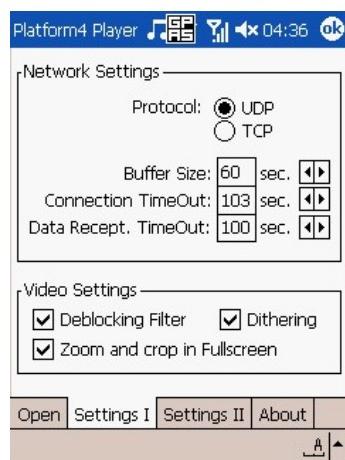
[Data Recept. TimeOut] **100**

[Deblocking Filter] **check**

Step 5



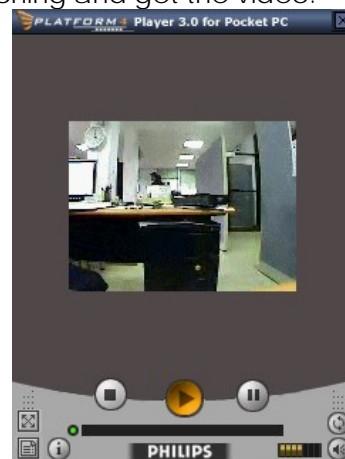
Step 6



Step 7



Step 8: Go back to PLATFORM4, searching and get the video.



Appendix B – PDA / Smart Phone Client

PDA / SP (Smart Phone) Client are only applied for devices with Windows Mobile 5.0 platform or above. See the sections below to find how to install and execute PDA / SP Client.

Note:

1. The different between Smart Phone and PDA Client is navigation of operation, user can only control client with phone buttons.
2. The resolution of PDA / SP Client is limited in **240*320** (QVGA).

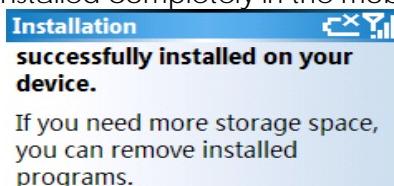
1.1 Install PDA / Smart Phone Client

Step 1: Connect mobile device to the PC.

Step 2: Insert the installation CD and click on PDA Client Installation / Smart Phone Client Installation to install application in device.

Note: If you do not have Microsoft® ActiveSync installed, a message will appear "Cannot find ActiveSync. Please reinstall ActiveSync and then run this installation again."

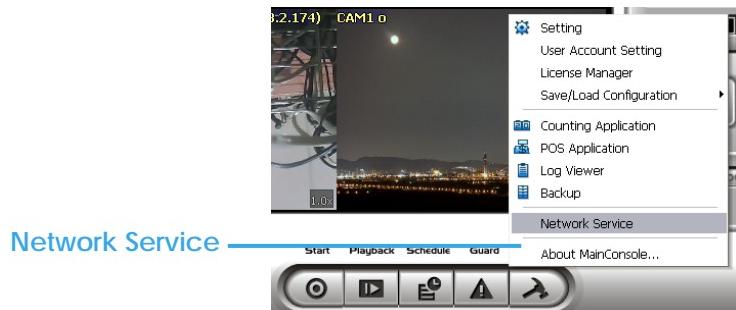
Step 3: Check the client application is installed completely in the mobile device.



1.2 Execute PDA / Smart Phone Client

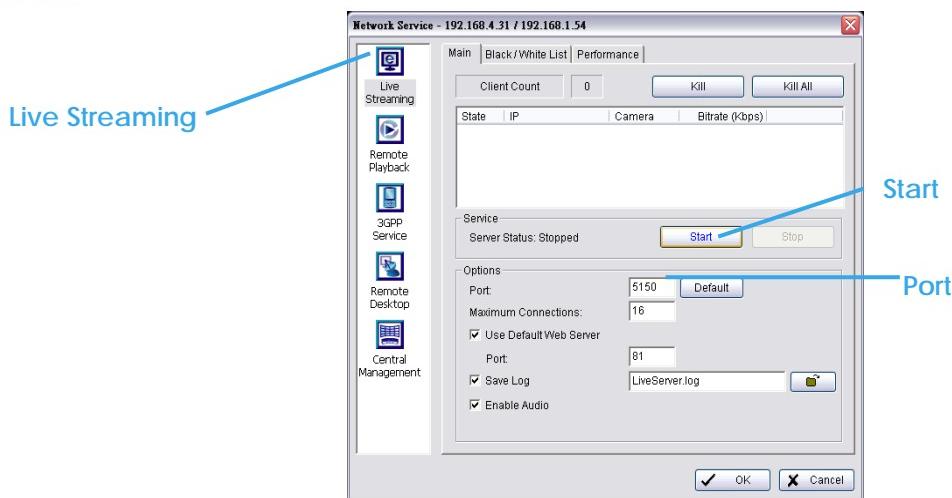
1.2.1 Main Console setting

Step 1: Go to Config and select Network Service



Step 2: Select "Live Streaming", and then click "Start".

Note: The "Port" selected here will be the same with the one in PDA/Smart Phone.



1.2.2 Execute and Login

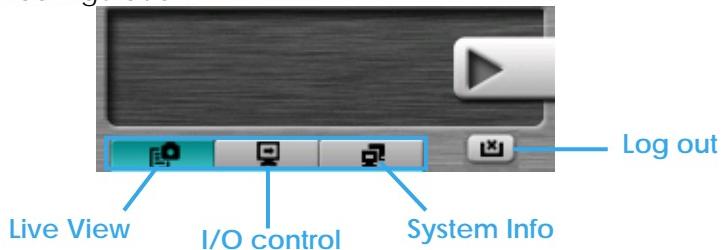
Step 1: Make sure your PDA/Smart Phone device is connected to network, and then go to Start - Programs - NUUO PDA/Smart Phone Client to execute application.



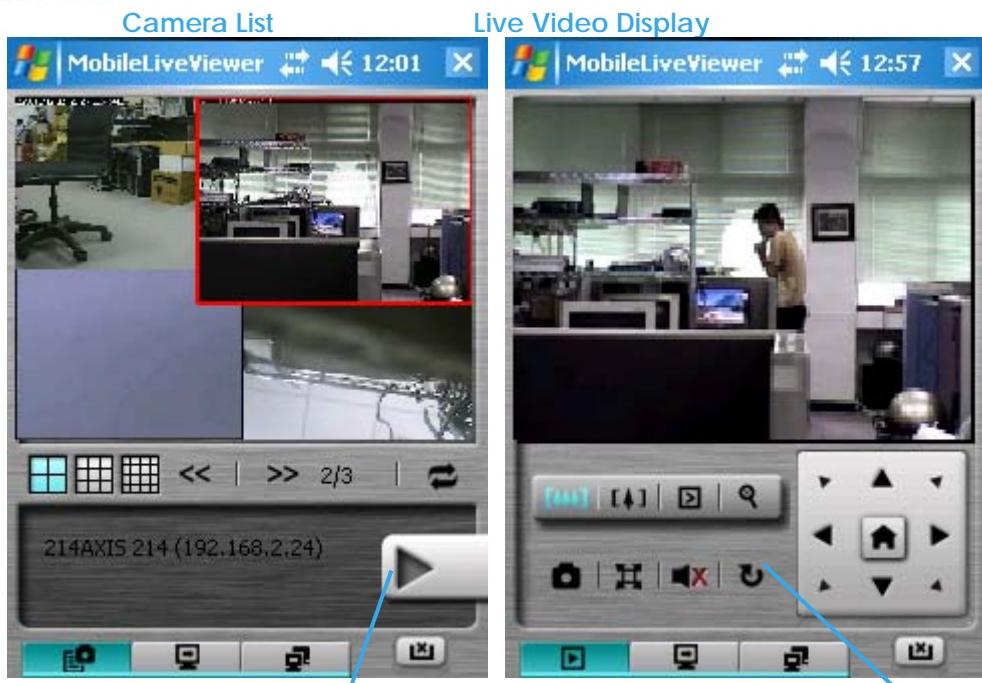
Step 2: Insert Address, Port, Name and Password of the server and click on to login.

1.3 PDA/Smart Phone Client Overview

There are 3 main pages of Client application: **Monitor Preview**, **I/O Control** and **System Info**. Switch between these buttons to adjust overall configuration.



1.3.1 Live View



Camera List:

Display Live Video

Back to Camera List

The Intelligent Surveillance Solution

NUUO NVR/DVR/Hybrid NDVR System

Displays all "snapshots" of channels connected to server as camera list. Click on indicated snapshot to get the channel information, and then click on to display live video.

Note: The Screen Division and Refresh option could help to quick find the channel.



Live Video Display:

Live View panel could display "live video", control PTZ, and snapshot. Click to go back camera list.

PTZ Control: Click on PT Control Panel and Zoom Out/In to control physical PTZ camera or adjust digital PTZ under digital PTZ mode.

Note: To switch between "Digital PTZ" and "Physical PTZ", simply click on button.



Preset Go: Click to select indicated preset point.



Snapshot: Click to take the snapshot and save it to default folder.

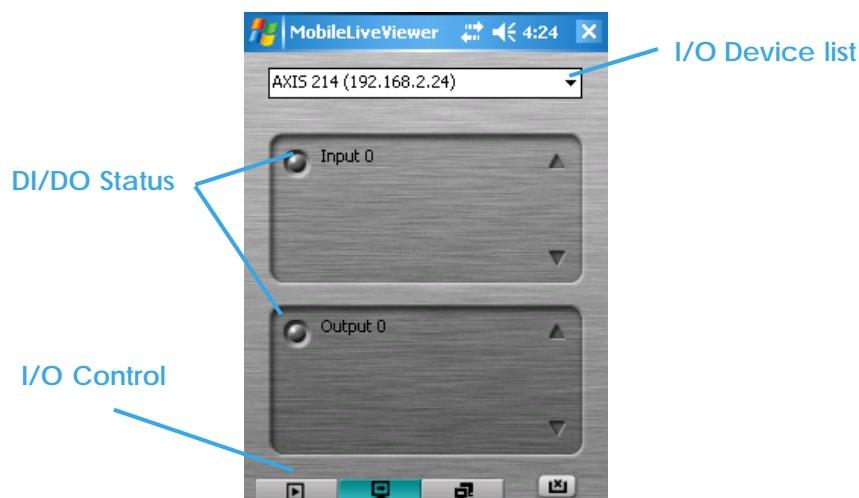
Full Screen: Click to toggle to the "Full Screen Mode", right click on screen to obtain the PT control panel and disable full screen display.



Enable Audio: Click to enable the audio of current channel.

1.3.2 I/O Control

Select "I/O Control" button to monitor status of DI/DO devices, and control DO devices.



I/O Device list:

Select and monitor the device connected with Server.

DI/DO status:

Monitor the DI/DO status synchronized with Server, and then click Output button to trigger the DO action.



Gray icon indicates the normal status of DI/DO devices.



Red icon indicates the alarm status of DI/DO devices.



Green icon indicates the synchronization process.

1.3.3 System Info

Display the server and client information. Server information includes address, port, and version. Client information includes login user, count of camera and I/O device with access authority and version.

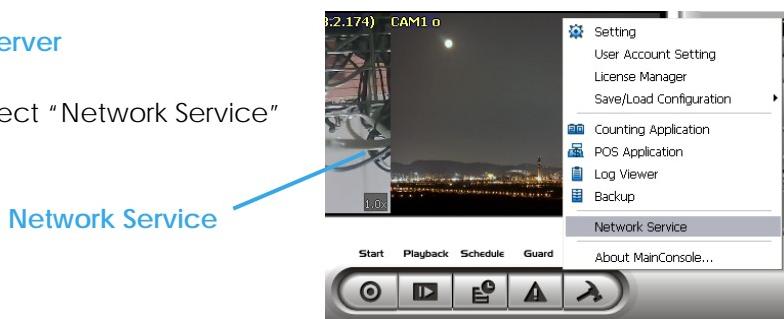


Appendix C – I-Phone Browser

NUUO Live Streaming service could handle the request from I-Phone browser. Below section will guide how to use this feature with I-Phone device.

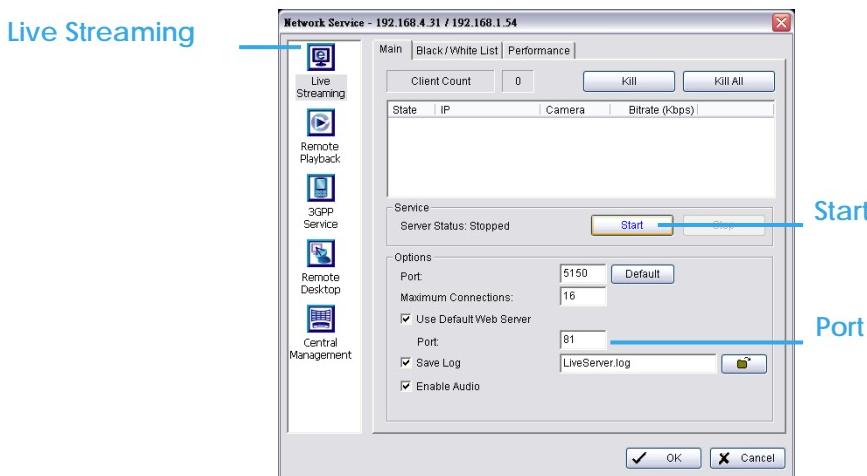
1.1 Configuration from NUUO server

Step 1: Go to “Config” and select “Network Service”



Step 2: Select “Live Streaming”, and then click “Start”.

Note: The “Port” selected here will be the same as the web live view and web playback.



1.2 Connect to NUUO server

Step 1: Make sure the I-phone is connected to the internet. Open Safari browser and enter the IP address or DDNS “name” of the server followed by the connecting port.

Example: <http://192.168.1.16:8080/>

Note: 192.168.1.16 is the IP address of the server.

8080 is the port specified in “Use Default Web Server” in Network Service.

Step 2: Enter user name and password to login NUUO MainConsole Server, select camera to view live video.

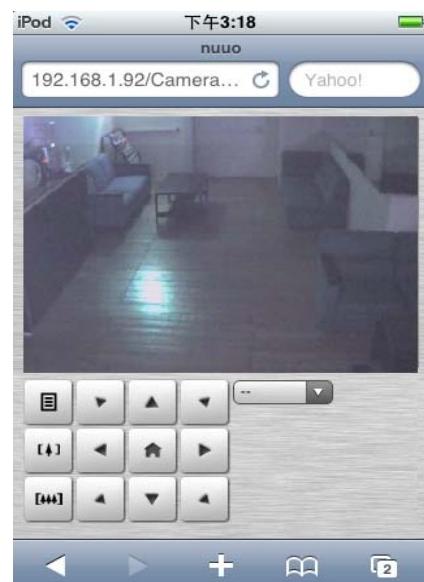
1.3 Live Display

To view live video, select camera from list, use touch panel to zoom in the video.

To switch video, please click to back to list and select another camera to view the video.

1.4 PTZ Control

With cameras that support PTZ function, the PTZ panel will show as picture. User can control camera to pan, tilt and zoom in/zoom out manually, or move to pre-set location by select PTZ preset point from drop down list.



Appendix D - Remote Desktop Tool

How to install NUUO Remote Desktop Tool

Step 1: Insert the Installation CD.

Step 2: Go to Remote Desktop Viewer directly and Run Setup.exe file.

How to Start NUUO Remote Desktop Tool

Step 1: Start - All Programs - NUUO Remote Desktop Viewer - Remote Desktop Viewer.

Step 2: Enter address, Port, Password of server. Enable the option to use 8 bits color level to show steadier screen.

Step 3: Click OK to Start Remote Desktop.

